GRUNDIG

Schaltbild
Circuit Diagram
Schema
CUC 2032

TV

ELEGANCE 70
ST 70 - 900 DOLBY
GCK9975

Es gelten die Vorschriften und Sicherheitshinweise gemäß dem Service Manual "Sicherheit", Materialnummer 72010 800 0000, sowie zusätzlich eventuell abweichende landesspezifische Vorschriften!

Für den Service erforderliche Informationen entnehmen Sie bitte dem zugehörigen Service Manual.

The regulations and safety instructions shall be valid as provided by the "Safety" Service Manual, part number 72010 800 0000, as well as the respective national deviations.

For the information required for service please see the corresponding Service Manual.

Valgono le prescrizioni e note di sicurezza secondo il Manuale di Servizio "Norme di sicurezza" numero d´ordine 72010 800 0000, cosi pure le eventuali disposizioni specifiche vigenti nel singolo stato.

Le informazioni necessario per il Service sono riportate nel relativo Manuale di Servizio.

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Ⓓ Abgleich

Achtung!
Nach einer Reparatur bzw. Wechsel des NVM (IC82005) muss kontrolliert werden, ob der NTSC Quarz 3,58MHz bestückt ist. Bei nicht bestücktem Quarz muss über das Menü die Dialogzeile "**NTSC 3,6**" auf "**aus**" gestellt werden.
Taste "**i**" –> "OK" –> SERVICE –> "OK" –> Service Code "8500" –> NTSC 3,6 "**aus**" und die Dialogzeile "**End**" mit "**with mem.**" beenden.

Messgeräte: 100MHz-Oszilloskop mit Tastkopf 10:1, Digitalvoltmeter, Farbbildgenerator, HF-Millivoltmeter
Geometrieeinstellung mit dem Vertikal-Abgleich beginnen!

Servicearbeiten nach Austausch bzw. Reparatur:
- **Netzteil:** Abgleich 1
- **ZF:** Abgleich 2
- **NVM IC82005:** Abgleich 2…8, 10
- **Bildröhre:** Abgleich 7, 8, 10, 11
- **Brückenspule L53074:** Nur nach unsachgemäßem Eingriff in der Horizontalablenkung notwendig: Abgleich 9

Abgleich	Vorbereitung	Abgleichvorgang
1. **+A** Spannung	Nach jeder Reparatur und vor jedem Abgleich kontrollieren und gegebenenfalls einstellen. Helligkeit: Minimum Digital-Voltmeter: Kathode D61016	**R60037** bzw. **R61313** nach Tabelle (Seite 8) im Schaltbild Netz-Chassis einstellen.
2. Tuner-AGC	100MHz-Oszilloskop oder HF-Millivoltmeter an Tunerkontakt 10 oder 11 gegen Tunermasse anschließen. Farbbildgenerator: Testbild (mit abgeschaltetem Tonträger) über die Antenne einspeisen, 70…80dBµV. Dialogzeile "AGC" über "**i**" (DIALOG CENTER) –> "OK" –> SERVICE –> "OK" –> Service Code "8500" –> aufrufen.	Mit den Tasten ◀ / ▶ **$300mV_{ss}$** einstellen. Ersatzweise wird ohne 100MHz-Oszilloskop oder HF-Millivoltmeter mit den Tasten ◀ / ▶ das Bild so abgestimmt, dass es gerade zu rauschen beginnt. Dann soweit zurückstellen, bis das Bild wieder rauschfrei wird. Dialogzeile "**End**" mit "**with mem**" beenden.
3. OSD	Dialogzeile "OSD" über "**i**" (DIALOG CENTER) –> "OK" –> SERVICE –> "OK" –> Service Code "8500" –> aufrufen.	Mit den Tasten ◀ / ▶ das Menü in die Bildmitte stellen. Dialogzeile "**End**" mit "**with mem.**" beenden.
4. Bildröhrentyp (Tube)	Dialogzeile "Tube" über "**i**" (DIALOG CENTER) –> "OK" –> SERVICE –> "OK" –> Service Code "8500" –> aufrufen.	Mit den Tasten ◀ / ▶ die richtige Bildschirmdiagonale eingeben. Dialogzeile "**End**" mit "**with mem.**" beenden.
5. Overscan	Nur mit IC TDA8843 oder TDA8844 sowie bei Philips 72cm/84cm in 4:3- und 70cm/82cm in 16:9-Format Bildröhren. Dialogzeile "Overscan" über "**i**" (DIALOG CENTER) –> "OK" –> SERVICE –> "OK" –> Service Code "8500" –> aufrufen.	Mit den Tasten ◀ / ▶ auf "**aus**" stellen. Dialogzeile "**End**" mit "**with mem.**" beenden.
6. NTSC 3,6	Dialogzeile "NTSC 3,6" über "**i**" (DIALOG CENTER) –> "OK" –> SERVICE –> "OK" –> Service Code "8500" –> aufrufen.	Mit den Tasten ◀ / ▶ je nach Gerät auf "**aus**" oder "**ein**" stellen. Dialogzeile "**End**" mit "**with mem.**" beenden.
7. Mittelpunkt S-Korrektur (Vertical Slope)	Menü "Vertical Slope" über "**i**" (DIALOG CENTER) –> "OK" –> SERVICE –> "OK" –> Service Code "8500" –> "GEOMETRIE" –> "OK" aufrufen.	Die Mittellinie des Testbildes in der Dialogzeile "Vertical Slope" (typ. 30…33) mit den Tasten ◀ / ▶ so abgleichen, dass sie gerade noch sichtbar ist. Taste "**i**" zweimal drücken (GEOMETRIE –> SERVICE) und Dialogzeile "**End**" mit "**with mem.**" beenden. Die Bildgeometrie stellt sich nach jedem Einschalten auf den zuletzt gespeicherten Wert ein.
8. Horizontale Bildlage (Horizontal Shift)	Helligkeit Maximum Dialogzeile "Horizontal Width" (Bildbreite) über "**i**" (DIALOG CENTER) –> "OK" –> SERVICE –> "OK" –> Service Code "8500" –> "GEOMETRIE" –> "OK" aufrufen und Bildbreite mit den Tasten ◀ / ▶ verkleinern. Dialogzeile "Horizontal Shift" aufrufen.	Bildinhalt mit den Tasten ◀ / ▶ mittig ins Raster stellen. (Horizontal Width) Bildbreite wieder nach Testbild einstellen. Mit dem Stecker "ST-Shift" am Chassis (optional), das Testbild in die Bildschirmmitte stellen. Dieser Stecker kann je nach Bildröhrenstreuung auch nachbestückt, verdreht aufgesetzt, oder im Widerstandswert verändert werden. Taste "**i**" zweimal drücken (GEOMETRIE –> SERVICE) und Dialogzeile "**End**" mit "**with mem.**" beenden. Die Bildgeometrie stellt sich nach jedem Einschalten auf den zuletzt gespeicherten Wert ein.

Abgleich	Vorbereitung	Abgleichvorgang
9. Brückenspule L53074	Die Brückenspule L53074 wird in der Fertigung abgeglichen und sollte nicht verdreht werden. Dialogzeile "Horizontal Width" über "i" (DIALOG CENTER) –> "OK" –> SERVICE –> "OK" –> Service Code "8500" –> "GEOMETRIE" –> "OK" aufrufen. Horizontal Width (Bildbreite) auf Minimum stellen. Oszilloskop Kanal 1: Kollektor T53001. Oszilloskop Kanal 2: Kathode D53072.	Gleiche Impulsbreite der Oszillogramme kontrollieren und gegebenenfalls mit Spule **L53074** abgleichen. Bildbreite nach Testbild einstellen.
10. Weißwert	Grautreppe mit Burst einspeisen. Kontrast Maximum. Farbkontrast (◑) Mittelwert. Bildschirmhelligkeit (☼) Mittelwert. Dialogzeile "WHITE ADJUSTMENT" über "i" (DIALOG CENTER) –> "OK" –> SERVICE –> "OK" –> Service Code "8500" aufrufen.	Mit den Tasten ◀ / ▶ die Werte für "**Grün**" bzw. "**Blau**" so einstellen, dass das Testbild unbunt wird. Kontrolle des Weißabgleichs mit Kontrast Minimum und Maximum. Dialogzeile "**End**" mit "**with mem.**" beenden.
11. Schirmgitterspannung U_{G2}	Dialogzeile "Cut-off align" über "i" (DIALOG CENTER) –> "OK" –> SERVICE –> "OK" –> Service Code "8500" aufrufen. Mit "OK" bestätigen.	Mit dem Einstellregler U_{G2} auf der Bildrohrplatte den **zuerst** erscheinenden roten, grünen, blauen oder mischfarbenen Strich gerade gut sichtbar einstellen. Mit "**OK**" zurück ins Menü.

(GB) Alignment

Attention!
After any repair or replacement of NVM (IC82005) check whether the NTSC 3.58MHz quartz is fitted. If it is not, the dialog line **"NTSC 3,6"** in the Service Menu must be set to "**off**".
Button "i" –> "OK" –> "SERVICE" –> "OK" –> Service Code "8500" –> NTSC 3,6 "**off**" and in dialog line "**End**" store the setting "**with mem.**".

Measuring instruments: 100MHz oscilloscope with 10:1 test probe, digital voltmeter, colour video generator, RF millivoltmeter

Service works after replacement or repair of the following modules:
- **Power supply:** Alignment 1
- **IF:** Alignment 2
- **NVM IC82005:** Alignment 2…8, 10
- **Picture tube:** Alignment 7, 8, 10, 11
- **Bridge Coil L53074:** Only necessary in the case of inexpert manipulation of the horizontal deflection: Alignment 9

Alignment	Preparations	Alignment Process
1. **+A** voltage	This voltage must be checked and re-adjusted if necessary after every repair and before every alignment. Brightness: Minimum Digital voltmeter: Cathode D61016	Adjust **R60037** or **R61313** according to the table (page 8) on the power supply circuit diagram.
2. Tuner AGC	100MHz oscilloscope or RF millivoltmeter to tuner contact 10 or 11 and tuner ground. Colour video generator: Feed in a test pattern (sound carrier switched off) via the aerial, 70…80dBµV. Call up the dialog line "AGC" via "i" (DIALOG CENTER) –> "OK" –> SERVICE –> "OK" –> Service Code "8500".	Adjust **300mV**$_{pp}$ with button ◀ / ▶. Alternatively, without using a oscilloscope or RF millivoltmeter, adjust the picture with button ◀ / ▶ so that noise just appears on the screen. Then reset until the picture is again free of noise. Dialog line "**End**", terminate "**with mem**".
3. OSD	Call up the dialog line "OSD" via "i" (DIALOG CENTER) –> "OK" –> SERVICE –> "OK" –> Service Code "8500".	With button ◀ / ▶ position the menu in the middle of the picture. Dialog line "**End**", terminate "**with mem.**".
4. Tube (Type of picture tube)	Call up the dialog line "Tube" via "i" (DIALOG CENTER) –> "OK" –> SERVICE –> "OK" –> Service Code "8500".	With button ◀ / ▶ enter the correct screen diagonal. Dialog line "**End**", terminate "**with mem.**".

Alignment	Preparations	Alignment Process
5. Overscan	Only with IC TDA8843 or TDA8844 as well as with Philips 72cm/84cm in 4:3 and 70cm/82cm in 16:9 format picture tubes. Call up the dialog line "Overscan" via "**i**" (DIALOG CENTER) –> "OK" –> SERVICE –> "OK" –> Service Code "8500".	Set to "**off**" with button ◀ / ▶. Dialog line "**End**", terminate "**with mem.**".
6. NTSC 3.6	Call up the dialog line "NTSC 3,6" via "**i**" (DIALOG CENTER) –> "OK" –> SERVICE –> "OK" –> Service Code "8500".	Set to "**off**" or "**on**" with button ◀ / ▶ dependent on the type of television receiver. Dialog line "**End**", terminate "**with mem.**".
7. Vertical Slope	Call up the "Vertical Slope" menu via "**i**" (DIALOG CENTER) –> "OK" –> SERVICE –> "OK" –> Service Code "8500" –> "GEOMETRY" –> "OK".	Adjust the center line of the test pattern in the dialog line "Vertical Slope" (typ. 30…33) with button ◀ / ▶ so that it is just still visible. Press button "**i**" twice (GEOMETRY –> SERVICE) and terminate the dialog line "**End**" with "**with mem.**". The picture geometry is adjusted to the value last stored whenever the TV set is switched on.
8. Horizontal Shift	Brightness Maximum. Call up dialog line "Horizontal Width" via "**i**" (DIALOG CENTER) –> "OK" –> SERVICE –> "OK" –> Service Code "8500" –> "GEOMETRY" –> "OK" and reduce the width of the picture using button ◀ / ▶. Call up dialog line "Horizontal Shift".	Position the picture content in the middle of the raster using button ◀ / ▶. Re-adjust the horizontal width according to the test pattern. With connector "ST-Shift" on the chassis (option), position the test pattern in the middle of the screen. Dependent on the scanning spread of the picture tube this connector may be retrofitted, connected the other way round, or the rating of the resistor may be changed. Press button "**i**" twice (GEOMETRY –> SERVICE) and terminate the dialog line "**End**" with "**with mem.**". The picture geometry is adjusted to the value last stored whenever the TV set is switched on.
9. Bridge Coil L53074	Bridge coil L53074 is adjusted in the factory and this setting must not be changed. Call up dialog line "Horizontal Width" via "**i**" (DIALOG CENTER) –> "OK" –> SERVICE –> "OK" –> Service Code "8500" –> "GEOMETRY" –> "OK". Set Horizontal Width to minimum. Oscilloscope channel 1: collector T53001. Oscilloscope channel 2: cathode D53072.	Check the oscillograms for the same pulse width and re-adjust it if necessary with coil **L53074**. Adjust the horizontal width according to the test pattern.
10. White Balance	Feed in a grey scale test pattern with burst. Contrast to maximum. Colour contrast (◑) to mid-position. Screen brightness (☼) to mid-position. Call up dialog line "WHITE ADJUSTMENT" via "**i**" (DIALOG CENTER) –> "OK" –> SERVICE –> "OK" –> Service Code "8500".	With button ◀ / ▶ set the values for **"Green"** or **"Blue"** so that the picture becomes achromatic. Check the white balance at minimum contrast and maximum contrast. Terminate the dialog line "**End**" with "**with mem.**".
11. Screen Grid Voltage U_{G2}	Call up dialog line "Cut-off align" via "**i**" (DIALOG CENTER) –> "OK" –> SERVICE –> "OK" –> Service Code "8500". Confirm with "OK".	With adjustment control $\mathbf{U_{G2}}$ on the picture tube panel, adjust the line appearing **first** - red, green, blue or mixed-colour - so that it is just well visible. Return to the menu with "**OK**".

Ⓘ Taratura

Attenzione!
Dopo una riparazione o sostituzione del NVM (IC82005), e necessario controllare se il quarzo NTSC 3,58 MHz e installato. In caso contrario, mediante il menu, bisogna impostare la riga di dialogo **"NTSC 3,6"** su **"off"**.
Tasto "**i**" –> "OK" –> SERVICE –> "OK" –> codice service "8500" –> NTSC 3,6 "**off**" e confermare tramite la riga di dialogo "**End**" con "**with mem.**".

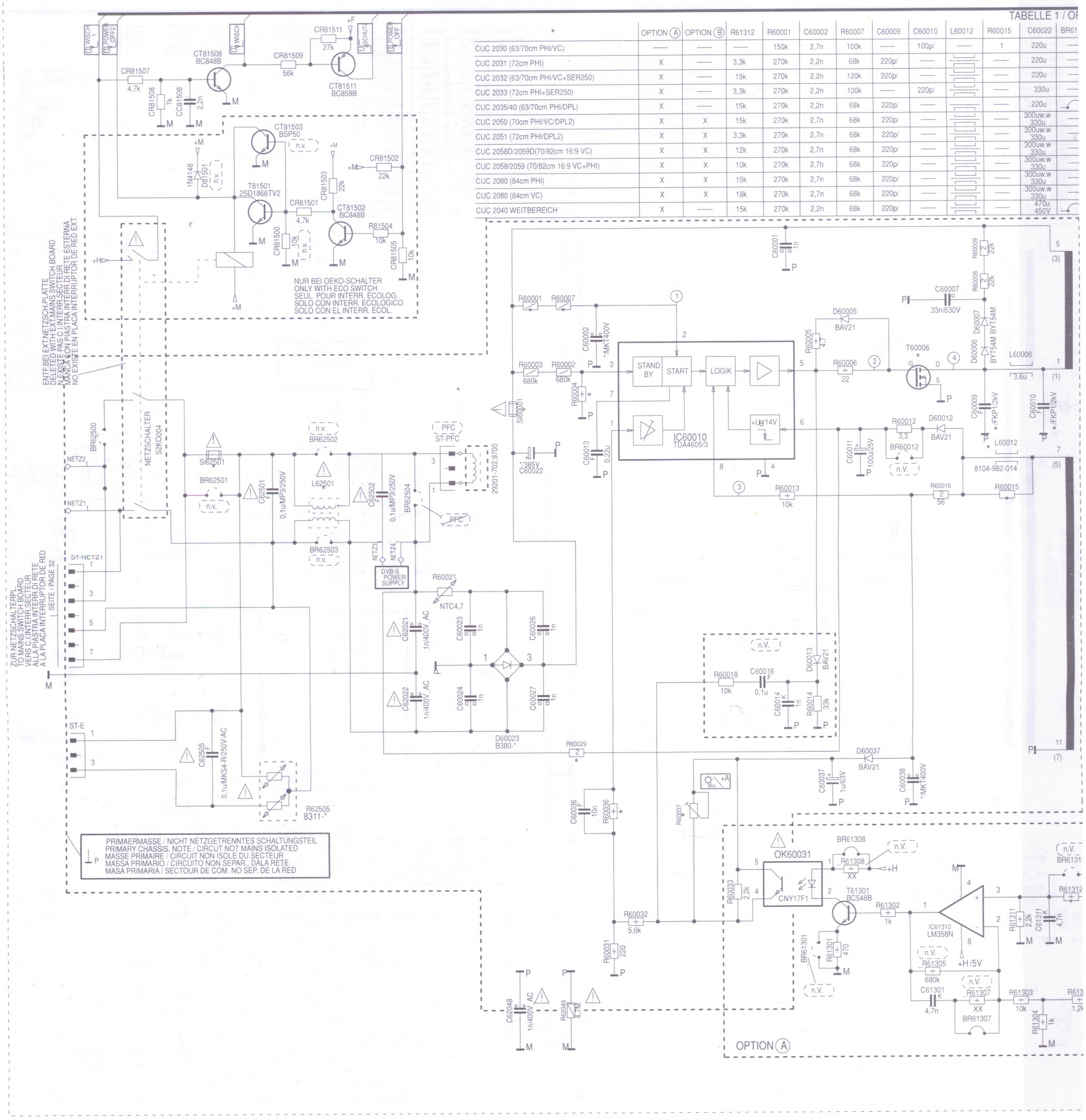
Strumenti di misura: oscilloscopio 100MHz con sonda 10:1, voltmetro digitale, generatore di test a colori, millivolmetro HF.
Iniziare la regolazione con la taratura verticale!

Operazioni del service, dopo la sostituzione o riparazione:
- **Alimentatore:** Taratura 1
- **FI:** Taratura 2
- **NVM IC82005:** Taratura 2…8, 10
- **Cinescopio:** Ttaratura 7, 8, 10, 11
- **Bobina a ponte L53074:** Necessario solo a seguito intervento incompetente sulla deflessione orizzontale: Taratura 9

Taratura	Preparazione	Procedura
1. Tensione **+A**.	Dopo ogni riparazione e prima di ogni taratura, controllare ed eventualmente regolare. Luminosità: minima Voltmetro digitale: catodo D61016	Regolare **R60037** o **R61313**, in base alla tabella (pagina 8) nello schema chassis di alimentazione.
2. Tuner AGC	Collegare l'oscilloscopio 100MHz oppure il millivoltmetro AF al contatto 10 o 11 del tuner, verso massa. Inserire il Generatore a colori: Applicare un monoscopio (con portante audio disattivata), tramite l'antenna, 70…80dBµV. Richiamare la riga di dialogo "AGC" con "**i**" (DIALOG CENTER) –> "OK" –> SERVICE –> "OK" –> codice service "8500".	Con i tasti ◀ / ▶ regolare su **300mV$_{pp}$**. In alternativa, senza l'oscilloscopio o millivoltmetro HF, con i tasti ◀/▶ l'immagine viene regolata in modo che inizi appena a frusciare; subito dopo regolare nuovamente, finché sparisce ogni fruscio. Terminare la regolazione con "**End**" "**with mem.**".
3. OSD	Richiamare la riga di dialogo "OSD" con "**i**" (DIALOG CENTER) –> "OK" –> SERVICE –> "OK" –> codice service "8500".	Mettere il menu al centro dello schermo con i tasti ◀ / ▶. Terminare la regolazione con "**End**" "**with mem.**".
4. Cinescopio (tipo)	Richiamare la riga di dialogo "cinescopio" con "DIALOG CENTER" –> SERVICE –> codice service "8500".	Con i tasti ◀ / ▶ immettere la corretta dimensione del cinescopio. Terminare la regolazione con "**End**" "**with mem.**".
5. Overscan (reazione del cinescopio durante lo spegnimento)	Solo con IC TDA8843 o TDA8844 e, per Philips, cinescopi da 72cm/84cm nel formato 4:3 e 70cm/82cm nel formato 16:9 Richiamare la riga di dialogo "Overscan" con "**i**" (DIALOG CENTER) –> "OK" –> SERVICE –> "OK" –> Service code "8500".	Con il tasto ◀ / ▶, mettere su "off". Terminare la riga di dialogo "**End**" con "**with mem.**".
6. NTSC 3,6	Richiamare la riga di dialogo "NTSC 3,6" con "**i**" (DIALOG CENTER) –> "OK" –> SERVICE –> "OK" –> codice service "8500".	Con il tasto ◀ / ▶, a seconda del tipo di apparecchio, mettere su "**off**" o su "**on**". Terminare la riga di dialogo "**End**" con "**with mem.**".
7. Linearità verticale (Vertical slope)	Richiamare il menu "Vertical slope" (linearità verticale) con "**i**" (DIALOG CENTER) –> "OK" –> SERVICE –> "OK" –> codice service "8500" –> "GEOMETRIA" –> "OK".	La linea centrale dell'immagine test nella riga di dialogo "linearità verticale" (tip. 30…33) viene tarata con i tasti ◀ / ▶, in modo che sia appena visibile. Premere il tasto "**i**" due volte (GEOMETRIA –> SERVICE) e terminare la riga di dialogo "**End**" con "**with mem.**". Dopo ogni accensione, la geometria de quadro si imposta sull'ultimo valore memorizzato.
8. Spostamento orizzontale (Horizontal Shift)	Luminosità massima Richiamare la riga di dialogo "Horizontal width" (larghezza orizzontale) con "**i**" (DIALOG CENTER) –> "OK" –> SERVICE –> "OK" –> codice service "8500" –> "GEOMETRIA" –> "OK" e ridurre la larghezza con i tasti ◀ / ▶. Richiamare la riga di dialogo "Horizontal shift".	Centrare il contenuto del quadro con i tasti ◀ / ▶. Regolare la larghezza del quadro nuovamente in base al quadro test. Con la spina "ST-Shift" al chassis (a scelta), portare l'immagine test nel centro dello schermo. Questa spina puó secondo la tolleranza del cinescopio, essere equipaggiata, fissata in maniera distorta, oppure alterando il valore della resistenza. Premere il tasto "**i**" due volte (GEOMETRIA –> SERVICE) e terminare la riga di dialogo "**End**" con "**with mem.**". Dopo ogni accensione, la geometria de quadro si imposta sull'ultimo valore memorizzato.

Taratura	Preparazione	Procedura
9. Bobina a ponte L53074	La bobina a ponte L53074 viene tarata in produzione e non dovrebbe venir regolata. Richiamare la riga di dialogo "Horizontal width" (larghezza orizzontale) con "i" (DIALOG CENTER) –> "OK" –> SERVICE –> "OK" –> codice service "8500" –> "GEOMETRIA" –> "OK". Regolare la larghezza quadro sul minimo. Oscilloscopio canale 1: collettore T53001. Oscilloscopio canale 2: catodo D53072.	Controllare la stessa larghezza di impulso degli oscillogrammi e tarare eventualmente con la bobina **L53074** Regolare la larghezza del quadro nuovamente in base al quadro test.
10. Valore del bianco	Inserire la scala dei grigi con burst. Contrasto massimo. Contrasto croma (◑) valore medio. Luminosità dello schermo (☼) valore medio. Richiamare la riga di dialogo "WHITE ADJUSTMENT" (taratura del bianco) con "i" (DIALOG CENTER) –> "OK" –> SERVICE –> "OK" –> codice service "8500".	Con i tasti ◀/▶ regolare i valeri per **"verde"** o **"azzurro"**, in modo che il quadro di test diventi incolore. Controllare la regolazione del bianco con contrasto minimo e massimo. Terminare la riga di dialogo "**End**" con "**with mem.**".
11. Tensione di griglia U_{G2} (Cut-off align)	Richiamare la riga di dialogo "cut-off align" con "i" (DIALOG CENTER) –> "OK" –> SERVICE –> "OK" –> codice service "8500". Confermare con "OK".	Con il regolatore **U_{G2}** sulla piastra chassis regolare la riga rossa, verde, azzurra o pluricolore che appare **per prima**, in modo appena visibile. Con "**OK**" si ritorna nel menu.

Netz-Chassis / Mains Chassis / Chassis di Rete


IC60010
TDA4605/3
STAND BY
START
LOGIK
OK60031
CNY17F1
T61301
BC548B
IC61310
LM358N
T60006
D60005
BAV21
D60012
D60037
D60023
B380-*
D60006
D60007
BYT54M
L60006
L60012
8104-982-014
L62501
R60021
NTC4,7
SI62501
SI60001
NETZSCHALTER
S2KO004
BR62500
BR62501
BR62502
BR62503
BR62504
BR61301
BR61307
BR61308
NETZ1
NETZ2
NETZ3
NETZ4
ST-NETZ1
ST-E
ST-PFC
PFC
29201-702.9700
DVB-S POWER SUPPLY
CT81508
BC848B
CT81511
BC858B
CT81503
BSP50
T81501
2SD1866TV2
CT81502
BC848B
1N4148
D81501
C60001
C60002
*MKT400V
C60007
33n/630V
C60009
*/FKP1/2kV
C60010
C60011
100u/25V
C60013
C60022
*/385V
C62501
0,1u/MP3/250V
C62502
C62505
0,1u/MKS4-R/250V-AC
C62021
C62022
1n/400V_AC
C62048
R62049
4,7M
R62505
8311-*
R60001
R60002
680k
R60003
680k
R60006
22
R60012
3,3
R60013
10k
R60016
56
R60015
R60029
R60031
220
R60032
5,6k
R60033
2,2k
R60036
R60037
R61302
1k
R61303
10k
R61305
680k
R61301
470
n.v.
OPTION Ⓐ
+H/5V
+M
+F
M
P
①
②
③
④

NUR BEI OEKO-SCHALTER
ONLY WITH ECO SWITCH
SEUL. POUR INTERR. ECOLOG.
SOLO CON INTERR. ECOLOGICO
SOLO CON EL INTERR. ECOL.

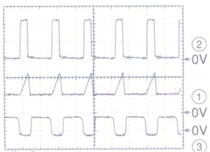
ENTF.BEI EXT.NETZSCH.PLATTE
DELETED WITH EXT.MAINS SWITCH BOARD
N EXISTE PAS C.I.INTERR.SECTEUR
MANCA CON PIASTRA INTERR.DI RETE ESTERNA
NO EXISTE EN PLACA INTERRUPTOR DE RED EXT.

ZUR NETZSCHALTERPL.
TO MAINS SWITCH BOARD
VERS C.I.INTERR.SECTEUR
ALLA PIASTRA INTERR.DI RETE
A LA PLACA INTERRUPTOR DE RED
SEITE / PAGE 32

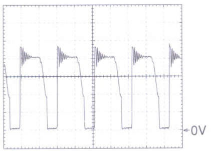
PRIMAERMASSE / NICHT NETZGETRENNTES SCHALTUNGSTEIL
PRIMARY CHASSIS, NOTE / CIRCUT NOT MAINS ISOLATED
MASSE PRIMAIRE / CIRCUIT NON ISOLE DU SECTEUR
MASSA PRIMARIO / CIRCUITO NON SEPAR., DALA RETE
MASA PRIMARIA / SECTOUR DE COM. NO SEP. DE LA RED

TABELLE 1 / O

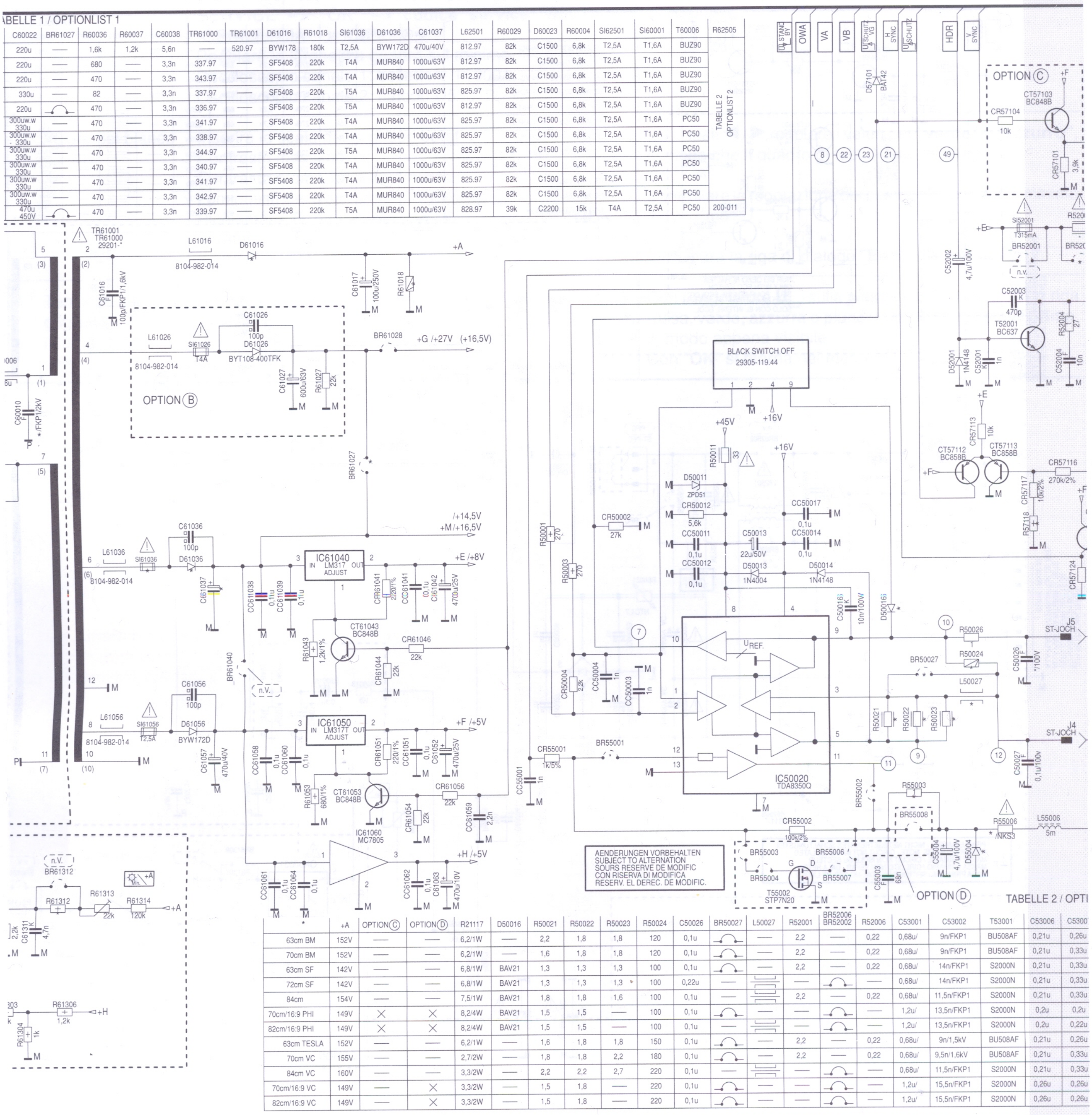
*	OPTION Ⓐ	OPTION Ⓑ	R61312	R60001	C60002	R60007	C60009	C60010	L60012	R60015	C60022	BR61
CUC 2030 (63/70cm PHI/VC)	—	—	—	150k	2,7n	100k	—	100p/	—	1	220u	—
CUC 2031 (72cm PHI)	X	—	3,3k	270k	2,2n	68k	220p/	—		—	220u	—
CUC 2032 (63/70cm PHI/VC+SER250)	X	—	15k	270k	2,2n	120k	220p/	—		—	220u	—
CUC 2033 (72cm PHI+SER250)	X	—	3,3k	270k	2,2n	100k	—	220p/		—	330u	—
CUC 2035/40 (63/70cm PHI/DPL)	X	—	15k	270k	2,2n	68k	220p/	—		—	220u	
CUC 2050 (70cm PHI/VC/DPL2)	X	X	15k	270k	2,7n	68k	220p/	—		—	300uw.w 330u	—
CUC 2051 (72cm PHI/DPL2)	X	X	3,3k	270k	2,7n	68k	220p/	—		—	300uw.w 330u	—
CUC 2058D/2059D(70/82cm 16:9 VC)	X	X	12k	270k	2,7n	68k	220p/	—		—	300uw.w 330u	—
CUC 2058/2059 (70/82cm 16:9 VC+PHI)	X	X	10k	270k	2,7n	68k	220p/	—		—	300uw.w 330u	—
CUC 2080 (84cm PHI)	X	X	15k	270k	2,7n	68k	220p/	—		—	300uw.w 330u	—
CUC 2080 (84cm VC)	X	X	18k	270k	2,7n	68k	220p/	—		—	300uw.w 330u	—
CUC 2040 WEITBEREICH	X	—	15k	270k	2,2n	68k	220p/	—		—	470u 450V	



①③ 1V/cm, 5µs/cm
② 5V/cm, 5µs/cm



④ 100mV/cm, 5µs/cm


TR61001
TR61000
29201-*
L61016
8104-982-014
D61016
+A
C61016
100p/FKP1/1,6kV
C61017
100u/250V
R61018
OPTION Ⓑ
L61026
SI61026
T4A
C61026
100p
D61026
BYT108-400TFK
C61027
600u/63V
R61027
22k
BR61028
+G /+27V (+16,5V)
BR61027
C60010
*/FKP1/2kV
/+14,5V
+M /+16,5V
L61036
SI61036
C61036
100p
D61036
C61037
IC61040
LM317
ADJUST
+E /+8V
CR61041
220/1%
CC61041
CC61042
0,1u
470u/25V
CC61038
CC61039
0,1u
R61043
1,2k/1%
CT61043
BC848B
CR61046
22k
CR61044
22k
BR61040
n.V.
L61056
SI61056
T2,5A
C61056
100p
D61056
BYW172D
C61057
470u/40V
IC61050
LM317T
ADJUST
+F /+5V
CR61051
220/1%
CC61051
CC61052
C61053
470u/25V
CC61058
CC61060
R61053
680/1%
CT61053
BC848B
CR61056
22k
CR61054
22k
CC61059
2,2n
IC61060
MC7805
+H /+5V
CC61061
CC61064
CC61062
C61063
470u/10V
BR61312
n.V.
R61312
R61313
22k
R61314
120k
C61311
4,7n
R61306
1,2k
+H
R61304
1k
U STAND BY
OWA
VA
VB
U SCHUTZ VG
H SYNC
U SCHUTZ
HDR
V SYNC
D57101
BAT42
OPTION Ⓒ
CR57104
10k
CT57103
BC848B
CR57101
3,9k
SI52001
T315mA
BR52001
n.v.
C52002
4,7u/100V
C52003
470p
T52001
BC637
R52004
C52004
10n
D52001
1N4148
C52001
1n
CR57113
10k
CT57112
BC858B
CT57113
BC858B
CR57116
270k/2%
CR57117
10k/2%
R57118
R57124
BLACK SWITCH OFF
29305-119.44
+45V
+16V
R50011
33
D50011
ZPD51
CR50012
5,6k
CR50002
27k
CC50011
0,1u
C50013
22u/50V
CC50017
0,1u
CC50014
0,1u
CC50012
0,1u
D50013
1N4004
D50014
1N4148
R50001
270
R50003
270
C50016
10n/100V
D50016
U REF.
CR50004
2,2k
CC50004
1n
CC50003
1n
IC50020
TDA8350Q
R50026
R50024
BR50027
L50027
C50026
*/100V
J5
ST-JOCH
J4
ST-JOCH
R50021
R50022
R50023
C50027
0,1u/100V
CR55001
1k/5%
BR55001
CC55001
1n
BR55002
R55003
BR55008
CR55002
100k/2%
BR55003
BR55004
BR55006
BR55007
T55002
STP7N20
C55003
68n
C55004
4,7u/100V
D55004
R55006
*/NKS3
L55006
5m
OPTION Ⓓ

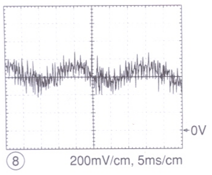
ABELLE 1 / OPTIONLIST 1

C60022	BR61027	R60036	R60037	C60038	TR61000	TR61001	D61016	R61018	SI61036	D61036	C61037	L62501	R60029	D60023	R60004	SI62501	SI60001	T60006	R62505
220u	—	1,6k	1,2k	5,6n	—	520.97	BYW178	180k	T2,5A	BYW172D	470u/40V	812.97	82k	C1500	6,8k	T2,5A	T1,6A	BUZ90	TABELLE 2 OPTIONLIST 2
220u	—	680	—	3,3n	337.97	—	SF5408	220k	T4A	MUR840	1000u/63V	812.97	82k	C1500	6,8k	T2,5A	T1,6A	BUZ90	
220u	—	470	—	3,3n	343.97	—	SF5408	220k	T4A	MUR840	1000u/63V	812.97	82k	C1500	6,8k	T2,5A	T1,6A	BUZ90	
330u	—	82	—	3,3n	337.97	—	SF5408	220k	T5A	MUR840	1000u/63V	825.97	82k	C1500	6,8k	T2,5A	T1,6A	BUZ90	
220u	⌒	470	—	3,3n	336.97	—	SF5408	220k	T5A	MUR840	1000u/63V	812.97	82k	C1500	6,8k	T2,5A	T1,6A	BUZ90	
300uw.w 330u	—	470	—	3,3n	341.97	—	SF5408	220k	T4A	MUR840	1000u/63V	825.97	82k	C1500	6,8k	T2,5A	T1,6A	PC50	
300uw.w 330u	—	470	—	3,3n	338.97	—	SF5408	220k	T4A	MUR840	1000u/63V	825.97	82k	C1500	6,8k	T2,5A	T1,6A	PC50	
300uw.w 330u	—	470	—	3,3n	344.97	—	SF5408	220k	T5A	MUR840	1000u/63V	825.97	82k	C1500	6,8k	T2,5A	T1,6A	PC50	
300uw.w 330u	—	470	—	3,3n	340.97	—	SF5408	220k	T4A	MUR840	1000u/63V	825.97	82k	C1500	6,8k	T2,5A	T1,6A	PC50	
300uw.w 330u	—	470	—	3,3n	341.97	—	SF5408	220k	T4A	MUR840	1000u/63V	825.97	82k	C1500	6,8k	T2,5A	T1,6A	PC50	
300uw.w 330u	—	470	—	3,3n	342.97	—	SF5408	220k	T4A	MUR840	1000u/63V	825.97	82k	C1500	6,8k	T2,5A	T1,6A	PC50	
470u 450V	⌒	470	—	3,3n	339.97	—	SF5408	220k	T5A	MUR840	1000u/63V	828.97	39k	C2200	15k	T4A	T2,5A	PC50	200-011

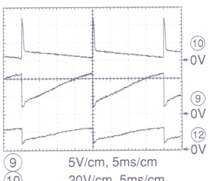
AENDERUNGEN VORBEHALTEN
SUBJECT TO ALTERNATION
SOURS RESERVE DE MODIFIC
CON RISERVA DI MODIFICA
RESERV. EL DEREC. DE MODIFIC.

TABELLE 2 / OPTI

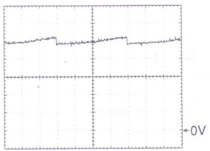
	+A	OPTION Ⓒ	OPTION Ⓓ	R21117	D50016	R50021	R50022	R50023	R50024	C50026	BR50027	L50027	R52001	BR52006 BR52002	R52006	C53001	C53002	T53001	C53006	C5300
63cm BM	152V	—	—	6,2/1W	—	2,2	1,8	1,8	120	0,1u	⌒	—	2,2	—	0,22	0,68u/	9n/FKP1	BU508AF	0,21u	0,26u
70cm BM	152V	—	—	6,2/1W	—	1,6	1,8	1,8	120	0,1u	⌒	—	2,2	—	0,22	0,68u/	9n/FKP1	BU508AF	0,21u	0,33u
63cm SF	142V	—	—	6,8/1W	BAV21	1,3	1,3	1,3	100	0,1u	⌒	—	2,2	—	0,22	0,68u/	14n/FKP1	S2000N	0,21u	0,33u
72cm SF	142V	—	—	6,8/1W	BAV21	1,3	1,3	1,3	100	0,22u	—	▭	—	⌒	—	0,68u/	14n/FKP1	S2000N	0,21u	0,33u
84cm	154V	—	—	7,5/1W	BAV21	1,8	1,8	1,6	100	0,1u	—	▭	2,2	—	0,22	0,68u/	11,5n/FKP1	S2000N	0,21u	0,33u
70cm/16:9 PHI	149V	×	×	8,2/4W	BAV21	1,5	1,5	—	100	0,1u	⌒	—	—	⌒	—	1,2u/	13,5n/FKP1	S2000N	0,2u	0,2u
82cm/16:9 PHI	149V	×	×	8,2/4W	BAV21	1,5	1,5	—	100	0,1u	—	▭	—	⌒	—	1,2u/	13,5n/FKP1	S2000N	0,2u	0,22u
63cm TESLA	152V	—	—	6,2/1W	—	1,6	1,8	1,8	150	0,1u	⌒	—	2,2	—	0,22	0,68u/	9n/1,5kV	BU508AF	0,21u	0,26u
70cm VC	155V	—	—	2,7/2W	—	1,8	1,8	2,2	180	0,1u	⌒	—	2,2	—	0,22	0,68u/	9,5n/1,6kV	BU508AF	0,21u	0,33u
84cm VC	160V	—	—	3,3/2W	—	2,2	2,2	2,7	220	0,1u	—	▭	—	⌒	—	0,68u/	11,5n/FKP1	S2000N	0,21u	0,33u
70cm/16:9 VC	149V	—	×	3,3/2W	—	1,5	1,8	—	220	0,1u	⌒	—	—	⌒	—	1,2u/	15,5n/FKP1	S2000N	0,26u	0,26u
82cm/16:9 VC	149V	—	×	3,3/2W	—	1,5	1,8	—	220	0,1u	⌒	—	—	⌒	—	1,2u/	15,5n/FKP1	S2000N	0,26u	0,26u



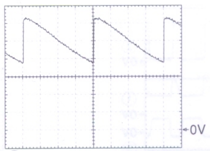
⑧ 200mV/cm, 5ms/cm



⑨ 5V/cm, 5ms/cm
⑩ 20V/cm, 5ms/cm
⑫ 10V/cm, 5ms/cm

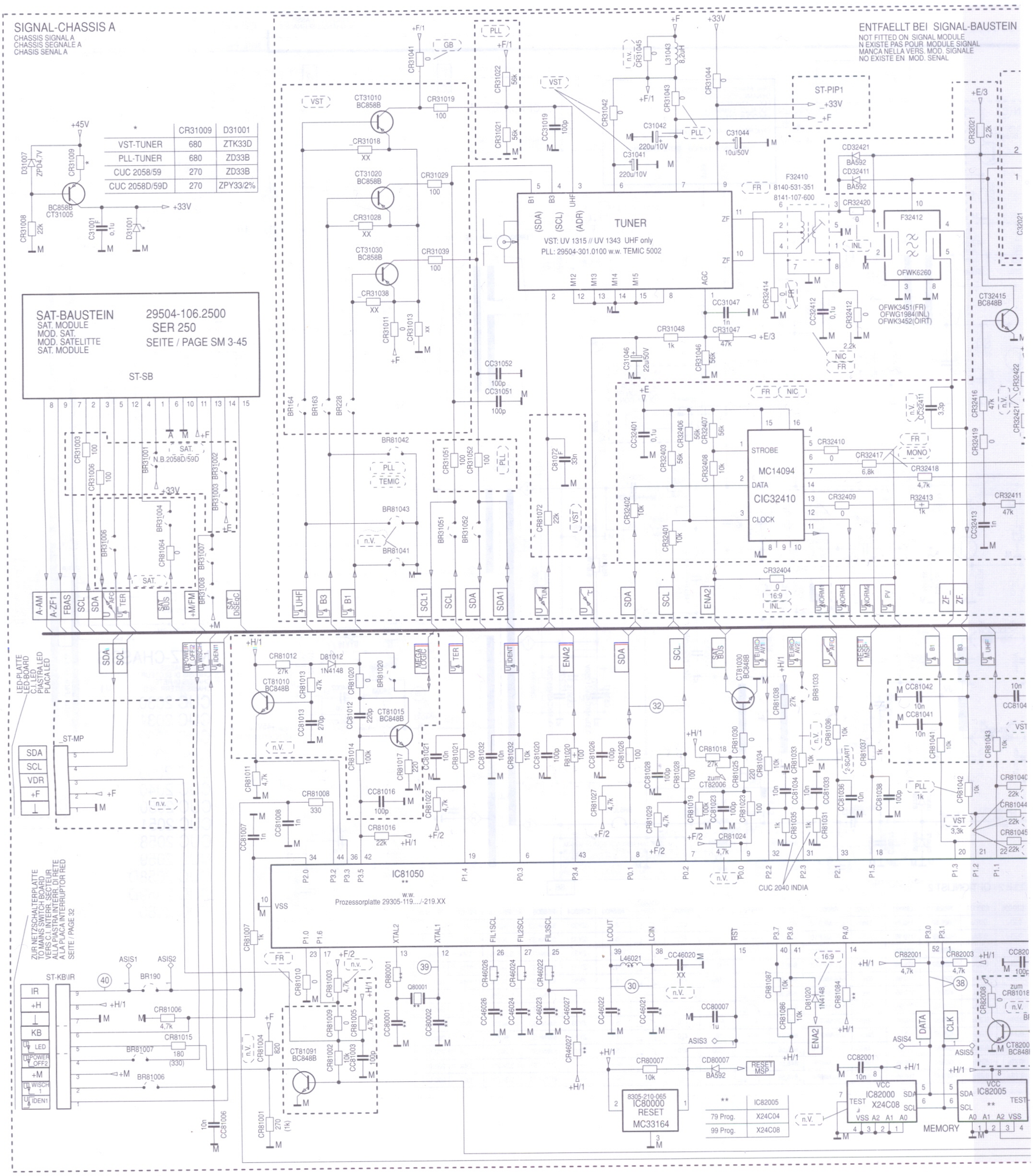


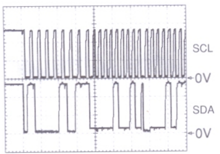
㉒ 500mV/cm, 5ms/cm



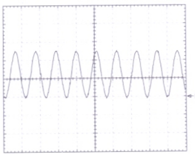
㉓ 500mV/cm, 5ms/cm

Signal-Chassis A / Signal Chassis A / Chassis Segnale A

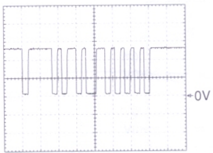

SIGNAL-CHASSIS A
CHASSIS SIGNAL A
CHASSIS SEGNALE A
CHASIS SEÑAL A
ENTFAELLT BEI SIGNAL-BAUSTEIN
NOT FITTED ON SIGNAL MODULE
N EXISTE PAS POUR MODULE SIGNAL
MANCA NELLA VERS. MOD. SIGNALE
NO EXISTE EN MOD. SEÑAL
SAT-BAUSTEIN 29504-106.2500
SAT. MODULE
MOD. SAT.
MOD. SATELLITE
SAT. MODULE
SER 250
SEITE / PAGE SM 3-45
ST-SB
TUNER
VST: UV 1315 // UV 1343 UHF only
PLL: 29504-301.0100 w.w. TEMIC 5002
ST-PIP1
MC14094
CIC32410
STROBE
DATA
CLOCK
OFWK6260
OFWK3451(FR)
OFWG1984(INL)
OFWK3452(OIRT)
IC81050
Prozessorplatte 29305-119..../-219.XX
CUC 2040 INDIA
IC80000
RESET
MC33164
IC82000
X24C08
IC82005
MEMORY
ST-MP
ST-KB\IR
LED-PLATTE
LED-BOARD
C.I. LED
PIASTRA LED
PLACA LED
ZUR NETZSCHALTERPLATTE
TO MAINS SWITCH-BOARD
VERS C.I. INTERR. SECTEUR
ALLA PIASTRA INTERR. DI RETE
A LA PLACA INTERRUPTOR RED
SEITE / PAGE 32
* | CR31009 | D31001
VST-TUNER | 680 | ZTK33D
PLL-TUNER | 680 | ZD33B
CUC 2058/59 | 270 | ZD33B
CUC 2058D/59D | 270 | ZPY33/2%
** | IC82005
79 Prog. | X24C04
99 Prog. | X24C08



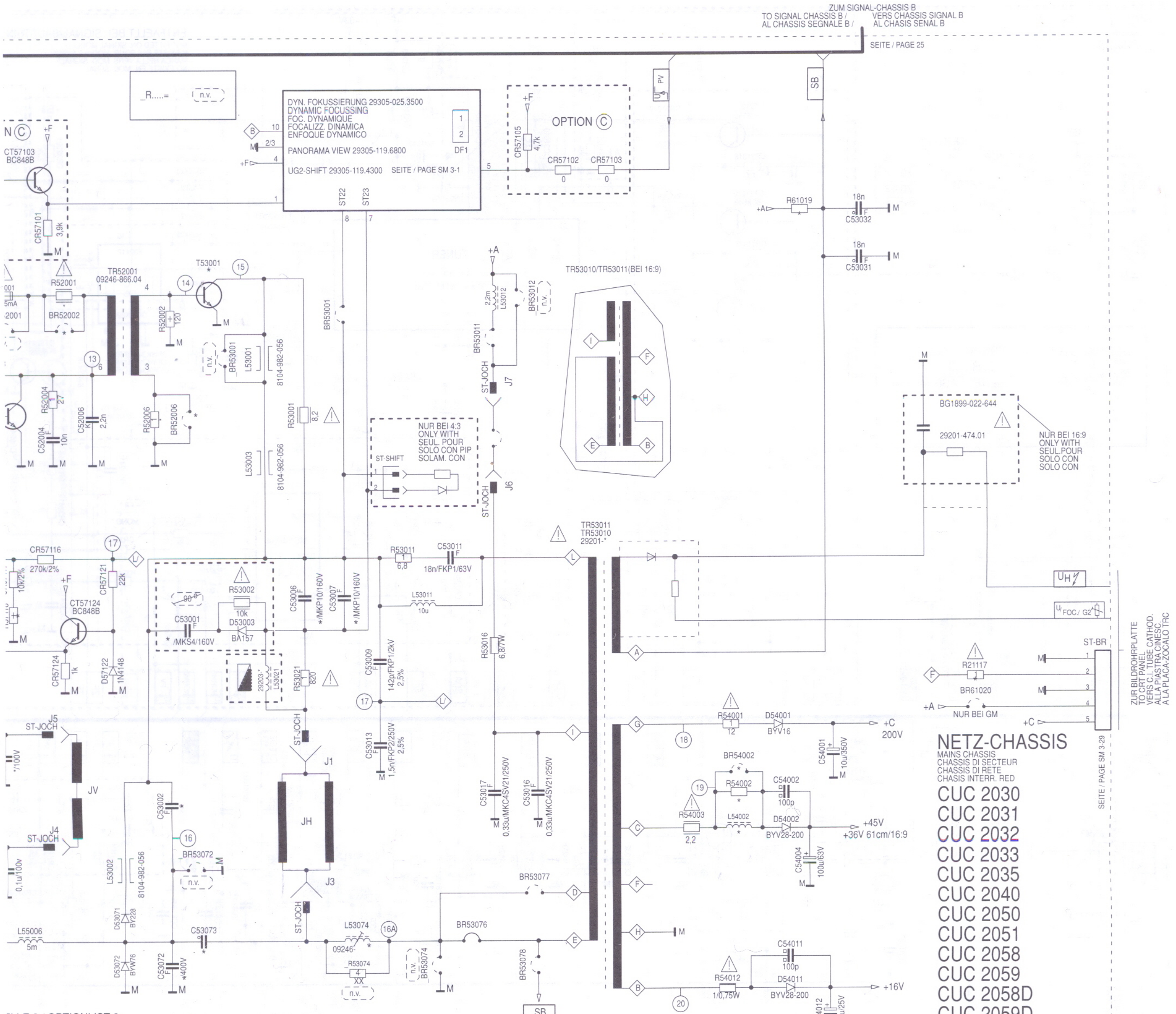
㉜ 2V/cm, 50µs/cm



㊴ 2V/cm, 50ns/cm



㊵ 2V/cm, 2ms/cm


ZUM SIGNAL-CHASSIS B
TO SIGNAL CHASSIS B /
AL CHASSIS SEGNALE B /
VERS CHASSIS SIGNAL B
AL CHASIS SENAL B
SEITE / PAGE 25
SB
R......=
n.v.
DYN. FOKUSSIERUNG 29305-025.3500
DYNAMIC FOCUSSING
FOC. DYNAMIQUE
FOCALIZZ. DINAMICA
ENFOQUE DYNAMICO
PANORAMA VIEW 29305-119.6800
UG2-SHIFT 29305-119.4300
SEITE / PAGE SM 3-1
DF1
ST22
ST23
OPTION C
CR57105
4,7k
CR57102
CR57103
CT57103
BC848B
CR57101
3,9k
TR52001
09246-866.04
T53001
R52001
BR52002
R52002
120
BR53001
L53001
8104-982-056
R52004
27
C52004
10n
C52006
2,2n
R52006
BR52006
L53003
R53001
8,2
TR53010/TR53011(BEI 16:9)
BR53011
L53012
2,2m
BR53012
ST-JOCH
J7
J6
NUR BEI 4:3
ONLY WITH
SEUL POUR
SOLO CON PIP
SOLAM. CON
ST-SHIFT
R61019
C53032
18n
C53031
BG1899-022-644
29201-474.01
NUR BEI 16:9
ONLY WITH
SEUL POUR
SOLO CON
SOLO CON
CR57116
270k/2%
CR57121
22k
CT57124
BC848B
CR57124
1k
D57122
1N4148
R53002
10k
C53001
D53003
BA157
*/MKS4/160V
C53006
*/MKP10/160V
C53007
*/MKP10/160V
R53011
6,8
C53011
18n/FKP1/63V
L53011
10u
TR53011
TR53010
29201-
R53016
6,8/7W
C53009
142p/FKP1/2kV
2,5%
L53021
R53021
820
J1
JH
J3
J5
J4
JV
C53013
1,5n/FKP2/250V
2,5%
C53017
0,33u/MKC4S/21/250V
C53016
0,33u/MKC4S/21/250V
UH
U FOC./ G2
ST-BR
R21117
BR61020
NUR BEI GM
ZUR BILDROHRPLATTE
TO CRT PANEL
VERS C.I. TUBE CATHOD.
ALLA PIASTRA CINESC.
A LA PLACA-ZOCALO TRC
SEITE / PAGE SM 3-29
R54001
12
D54001
BYV16
+C
200V
C54001
10u/350V
BR54002
R54002
C54002
100p
R54003
2,2
L54002
D54002
BYV28-200
+45V
+36V 61cm/16:9
C54004
100u/63V
BR53077
R54012
1/0,75W
C54011
100p
D54011
BYV28-200
+16V
C54012
4700u/25V
L53002
8104-982-056
C53002
BR53072
D53071
BY228
L55006
5m
D53072
BYW76
C53072
*/400V
C53073
L53074
09246-
R53074
4
XX
BR53076
BR53074
BR53078
0,1u/100V
+A
+F
M

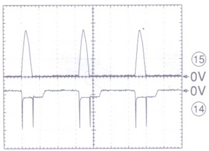
NETZ-CHASSIS
MAINS CHASSIS
CHASSIS DI SECTEUR
CHASSIS DI RETE
CHASIS INTERR. RED

CUC 2030
CUC 2031
CUC 2032
CUC 2033
CUC 2035
CUC 2040
CUC 2050
CUC 2051
CUC 2058
CUC 2059
CUC 2058D
CUC 2059D
CUC 2080

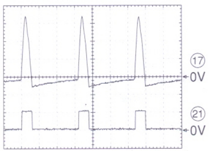
170700
21641-907.0100

ELLE 2 / OPTIONLIST 2

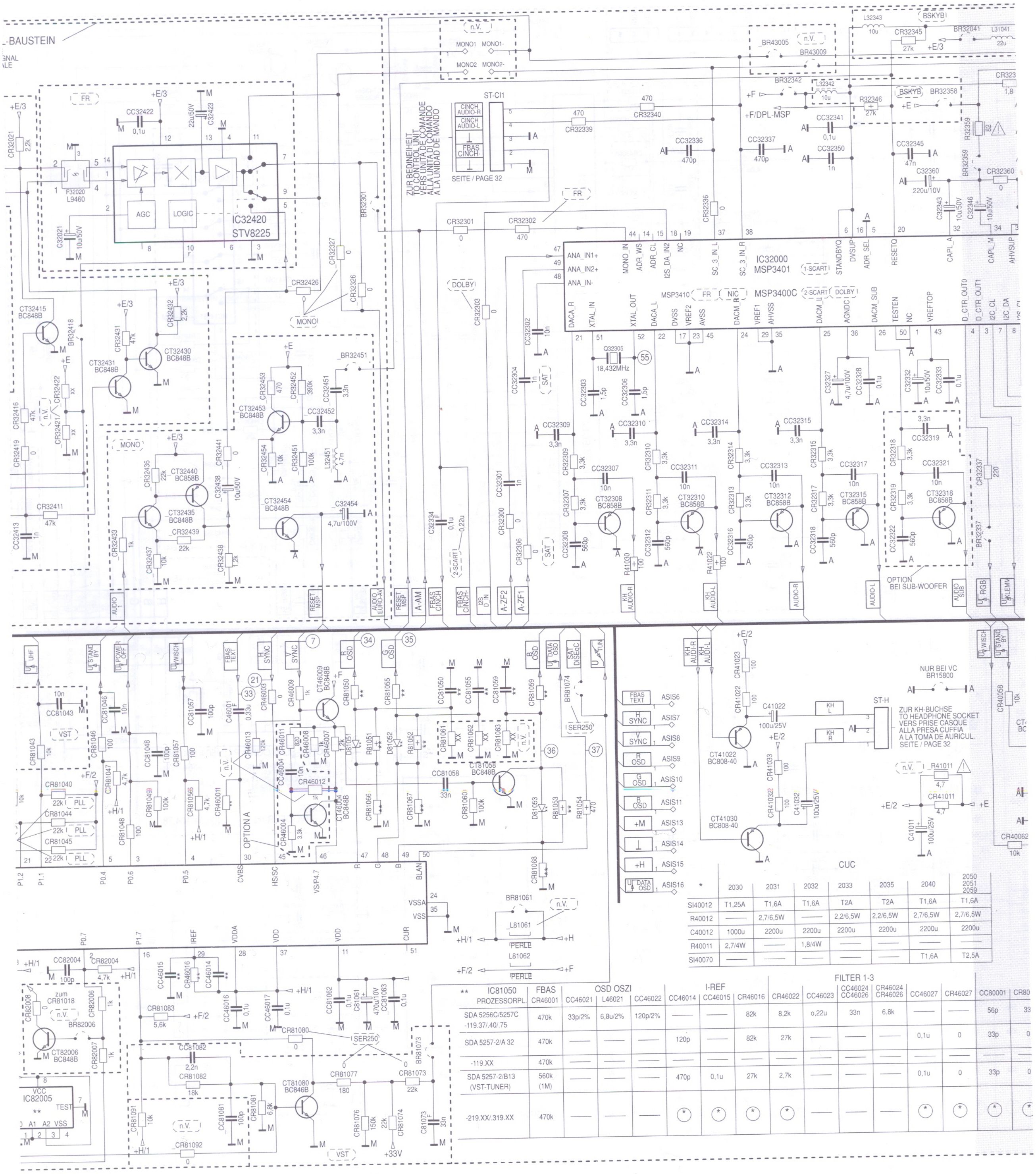
C53006	C53007	TR53010	L53021	C53072	C53073	L53074	BR54002	L54002	R54002	BR55002 BR55001	R55003	D55004	R55006	R57118	R61019	R62505
0,21u	0,26u	-029.52	110.95	24n	u36/MKP10	846.51	——	22u	470	⌒	5,6	ZY33	5,6/NKS3	3k/2%	680k	200-016
0,21u	0,33u	-029.52	110.95	24n	u36/MKP10	846.51	——	22u	470	⌒	5,6	ZY33	5,6/NKS3	3k/2%	390k	200-016
0,21u	0,33u	-029.59	124.95	20n	u68/MKP10	846.21	——	18u	470	⌒	5,6	ZY33	5,6/NKS3	3,9k/2%	330k	200-016
0,21u	0,33u	-029.59	124.95	20n	1,2u/MKP10	846.57	——	18u	470	⌒	5,6	ZY33	5,6/NKS3	3,9k/2%	330k	200-016
0,21u	0,33u	-029.60	110.95	20n	u68/MKP10	846.56	——	18u	470	⌒	5,6	ZY33	5,6/NKS3	2,7k/2%	330k	200-016
0,2u	0,2u	-029.63	110.95	16n	1,2u/MKP4	846.56	⌒	——	——	——	——	——	4,7/NKS3	3,3k/2%	330k	200-016
0,2u	0,22u	-029.65	110.95	16n	1,2u/MKP4	846.56	⌒	——	——	——	——	——	4,7/NKS3	3,3k/2%	330k	200-016
0,21u	0,26u	-029.52	118.95	24n	u36/MKP10	846.51	——	5,6u	470	⌒	5,6	ZY33	5,6/NKS3	3k/2%	330k	200-012
0,21u	0,33u	-029.52	110.95	24n	u36/MKP10	846.51	——	18u	470	⌒	5,6	ZY33	5,6/NKS3	3k/2%	390k	200-012
0,21u	0,33u	-029.66	110.95	24n	u68/MKP10	846.56	——	33u	470	⌒	5,6	ZY33	5,6/NKS3	2,2k/2%	330k	200-012
0,26u	0,26u	-029.63	110.95	16n	1,2u/MKP4	846.56	⌒	——	——	——	——	——	4,7/NKS3	3,3k/2%	330k	200-012
0,26u	0,26u	-029.63	110.95	16n	1,2u/MKP4	846.56	⌒	——	——	——	——	——	4,7/NKS3	3,3k/2%	330k	200-012



⑭ 5V/cm, 20µs/cm
⑮ 500V/cm, 20µs/cm

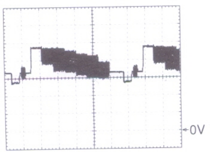


⑰ 20V/cm, 20µs/cm
㉑ 5V/cm, 20µs/cm

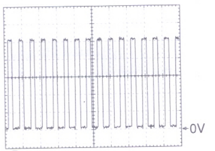

-BAUSTEIN
IC32420
STV8225
AGC
LOGIC
IC32000
MSP3401
MSP3400C
MSP3410
ST-CI1
CINCH AUDIO-R
CINCH AUDIO-L
FBAS CINCH
SEITE / PAGE 32
ZUR BEDIENEINHEIT
TO CONTROL UNIT
VERS UNITÉ DE COMMANDE
ALLA UNITÀ DI COMANDO
A LA UNIDAD DE MANDO
ANA_IN1+
ANA_IN2+
ANA_IN-
DACA_R
XTAL_IN
XTAL_OUT
DACA_L
DVSS
VREF2
AVSS
DACM_R
VREF1
AHVSS
DACM_L
AGNDC
DACM_SUB
TESTEN
NC
VREFTOP
D_CTR_OUT0
D_CTR_OUT1
I2C_CL
I2C_DA
MONO_IN
ADR_WS
ADR_CL
I2S_DA_IN2
SC_3_IN_L
SC_3_IN_R
STANDBYQ
DVSUP
ADR_SEL
RESETQ
CAPL_A
CAPL_M
AHVSUP
Q32305
18,432MHz
CT32415 BC848B
CT32430 BC846B
CT32431 BC848B
CT32440 BC858B
CT32435 BC848B
CT32453 BC848B
CT32454 BC848B
CT32308 BC858B
CT32310 BC856B
CT32312 BC858B
CT32315 BC858B
CT32318 BC858B
OPTION BEI SUB-WOOFER
FR
MONO
DOLBY
SAT
n.V.
2-SCART
1-SCART
NIC
BSKYB
+F/DPL-MSP
AUDIO
RESET MSP
AUDIO EURO-AV
A-AM
FBAS CINCH
I2S D_IN
A-ZF2
A-ZF1
KH AUDIO-R
KH AUDIO-L
AUDIO-R
AUDIO-L
AUDIO SUB
RGB
KLEMM
IC81050
CVBS
HS/SC
VS/P4.7
BLAN
VSSA
VSS
IREF
VDDA
VDD
CUR
OPTION A
CT46008 BC848B
CT46012 BC848B
CT81058 BC848B
CT81080 BC846B
CT82006 BC848B
IC82005
TEST
SER250
PERLE
L81061
L81062
BR81061
VST
PLL
FBAS TEXT
H SYNC
V SYNC
R OSD
G OSD
B OSD
SAT DSEqc
DATA OSD
UHF
STAND BY
POWER OFF
WISCH
ASIS6
ASIS7
ASIS8
ASIS9
ASIS10
ASIS11
ASIS13
ASIS14
ASIS15
ASIS16
ST-H
ZUR KH-BUCHSE
TO HEADPHONE SOCKET
VERS PRISE CASQUE
ALLA PRESA CUFFIA
A LA TOMA DE AURICUL.
SEITE / PAGE 32
CT41022 BC808-40
CT41030 BC808-40
NUR BEI VC
BR15800
+33V
㉑
㉝
㉞
㉟
㊱
㊲
(55)
⑦

*	2030	2031	2032	2033	2035	2040	2050 2051 2059
SI40012	T1,25A	T1,6A	T1,6A	T2A	T2A	T1,6A	T1,6A
R40012	—	2,7/6,5W	—	2,2/6,5W	2,2/6,5W	2,7/6,5W	2,7/6,5W
C40012	1000u	2200u	2200u	2200u	2200u	2200u	2200u
R40011	2,7/4W	—	1,8/4W	—	—	—	—
SI40070	—	—	—	—	—	T1,6A	T2,5A

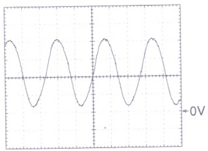
** IC81050	FBAS	OSD OSZI			I-REF			FILTER 1-3						
PROZESSORPL.	CR46001	CC46021	L46021	CC46022	CC46014	CC46015	CR46016	CR46022	CC46023	CC46024 CC46026	CR46024 CR46026	CC46027	CR46027	CC80001	CR80
SDA 5256C/5257C -119.37/.40/.75	470k	33p/2%	6,8u/2%	120p/2%	—	—	82k	8,2k	o,22u	33n	6,8k	—	—	56p	33
SDA 5257-2/A 32	470k	—	—	—	120p	—	82k	27k	—	—	—	0,1u	0	33p	0
-119.XX	470k	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SDA 5257-2/B13 (VST-TUNER)	560k (1M)	—	—	—	470p	0,1u	27k	2,7k	—	—	—	0,1u	0	33p	0
-219.XX/.319.XX	470k	—	—	—	⊛	⊛	⊛	⊛	—	—	—	⊛	⊛	⊛	⊛



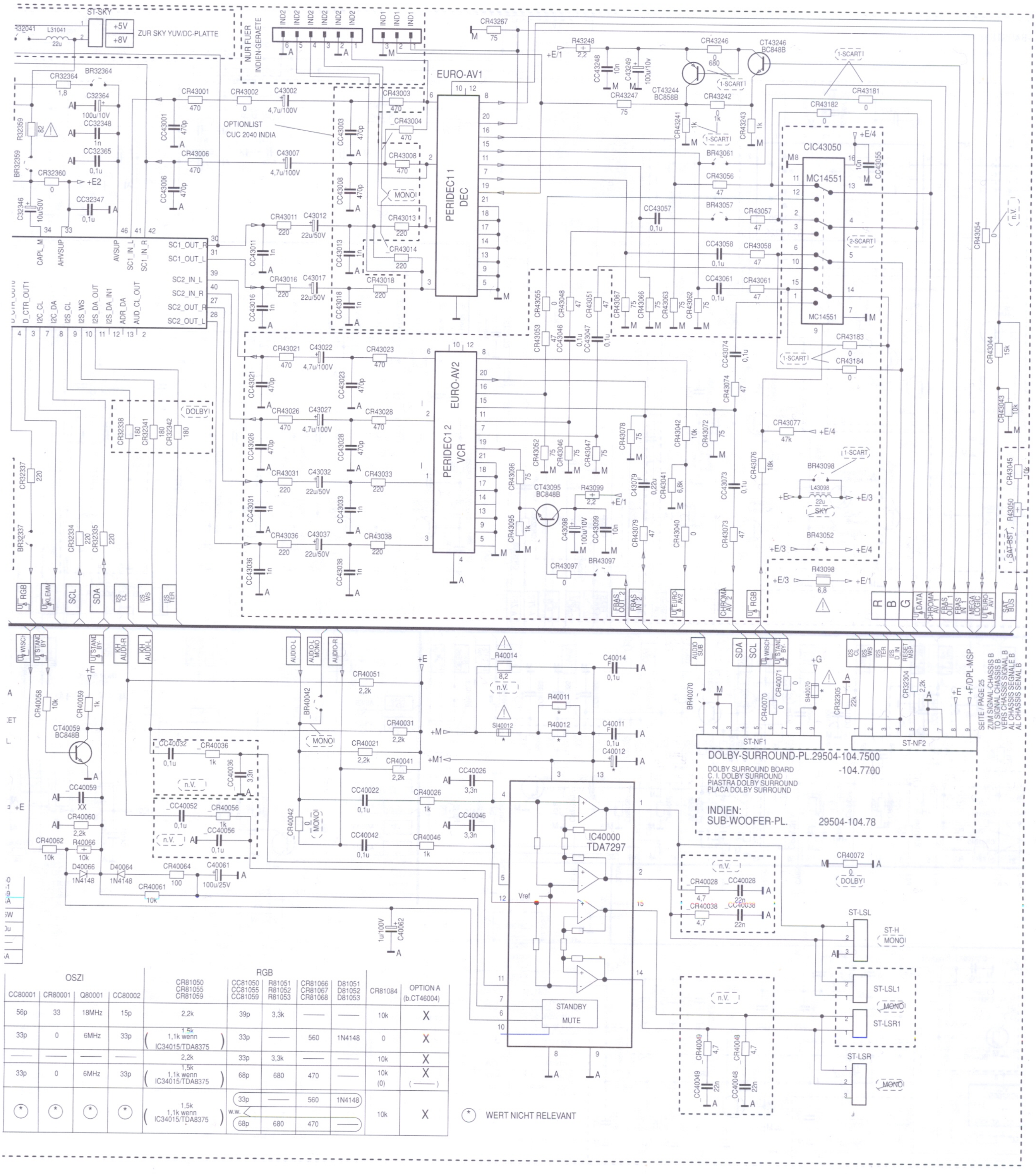
㉝ 1V/cm, 10µs/cm



㊲ 1V/cm, 100µs/cm



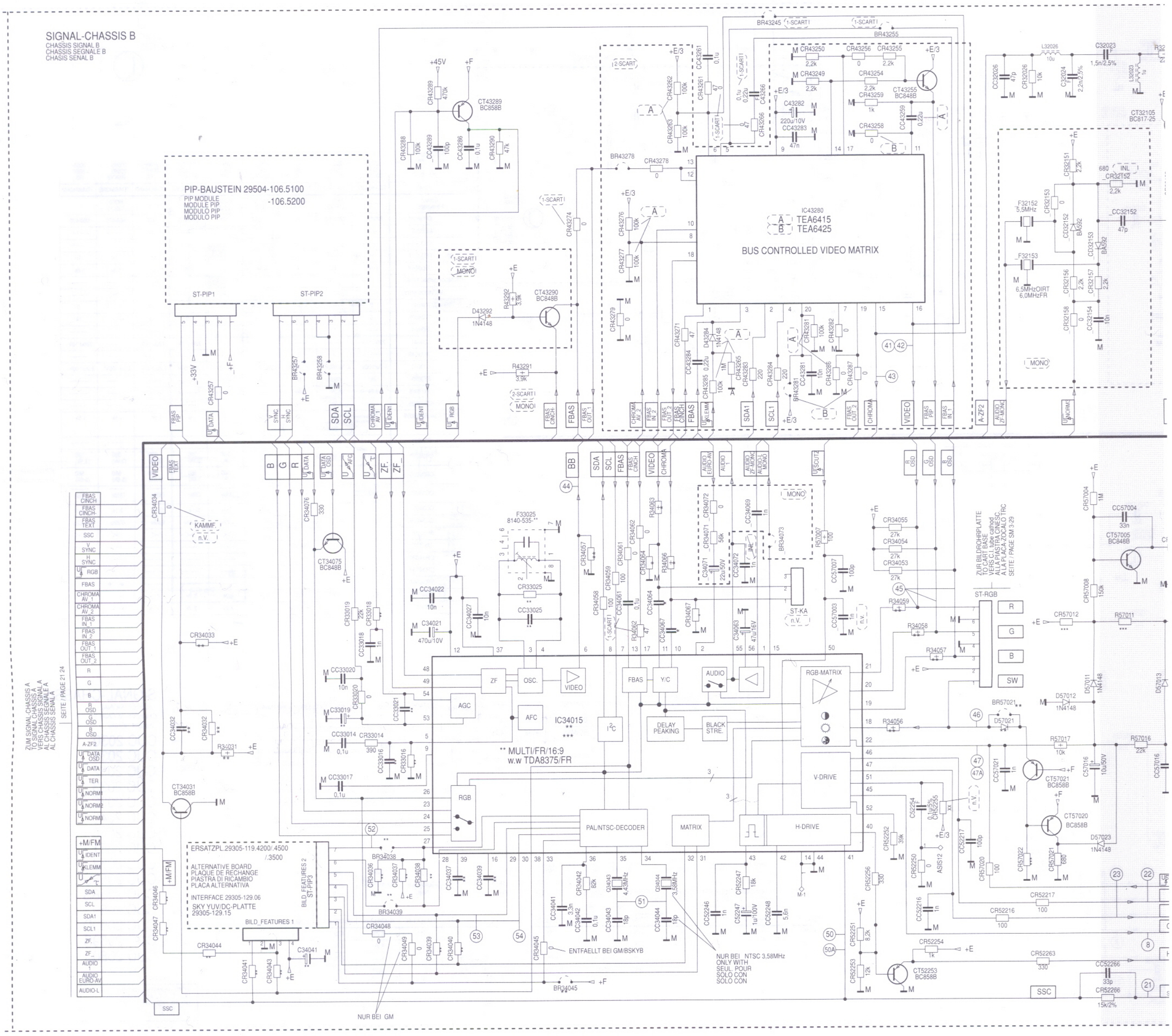
(55) 1V/cm, 20ns/cm

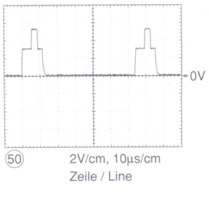

ST-SKY
+5V
+8V
ZUR SKY YUV/DC-PLATTE
NUR FUER INDIEN-GERAETE
IND2
IND1
EURO-AV1
PERIDEC11 DEC
OPTIONLIST CUC 2040 INDIA
MONO!
CIC43050
MC14551
1-SCART!
2-SCART!
CT43246 BC848B
CT43244 BC858B
EURO-AV2
PERIDEC12 VCR
CT43095 BC848B
SKY
DOLBY!
SC1_OUT_R
SC1_OUT_L
SC2_IN_L
SC2_IN_R
SC2_OUT_R
SC2_OUT_L
CAPL_M
AHVSUP
AVSUP
SC1_IN_L
SC1_IN_R
D_CTR_OUT1
I2C_CL
I2C_DA
I2S_CL
I2S_WS
I2S_DA_OUT
I2S_DA_IN1
ADR_DA
AUD_CL_OUT
RGB
SCL
SDA
I2S CL
I2S WS
I2S TER
FBAS OUT 2
FBAS IN 2
EURO AV2
CHROMA AV 2
R
B
G
DATA
CHROMA AV 1
FBAS OUT 1
FBAS IN 1
MEGA LOGIC
EURO AV1
SAT BUS
SAT-BST
n.V.
WISCH
STAND BY
KH AUDI-R
KH AUDI-L
AUDIO-L
AUDIO-L MONO
AUDIO-R
CT40059 BC848B
D40066 1N4148
D40064 1N4148
IC40000 TDA7297
Vref
STANDBY
MUTE
AUDIO SUB
I2S D_IN
RESET MSP
+F/DPL-MSP
ST-NF1
ST-NF2
DOLBY-SURROUND-PL.29504-104.7500
-104.7700
DOLBY SURROUND BOARD
C. I. DOLBY SURROUND
PIASTRA DOLBY SURROUND
PLACA DOLBY SURROUND
INDIEN:
SUB-WOOFER-PL. 29504-104.78
SEITE / PAGE 25
ZUM SIGNAL-CHASSIS B
TO SIGNAL CHASSIS B
VERS CHASSIS SIGNAL B
AL CHASSIS SEGNALE B
AL CHASSIS SENAL B
ST-LSL
ST-H
ST-LSL1
ST-LSR1
ST-LSR
WERT NICHT RELEVANT

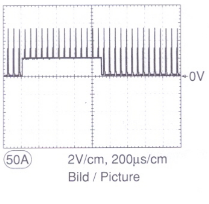
OSZI				RGB						
CC80001	CR80001	Q80001	CC80002	CR81050 CR81055 CR81059	CC81050 CC81055 CC81059	R81051 R81052 R81053	CR81066 CR81067 CR81068	D81051 D81052 D81053	CR81084	OPTION A (b.CT46004)
56p	33	18MHz	15p	2,2k	39p	3,3k	——	——	10k	X
33p	0	6MHz	33p	(1,5k 1,1k wenn IC34015/TDA8375)	33p	——	560	1N4148	0	X
——	——	——	——	2,2k	33p	3,3k	——	——	10k	X
33p	0	6MHz	33p	(1,5k 1,1k wenn IC34015/TDA8375)	68p	680	470	——	10k (0)	X (——)
(*)	(*)	(*)	(*)	(1,5k 1,1k wenn IC34015/TDA8375)	33p w.w. 68p	—— 680	560 470	1N4148 ——	10k	X

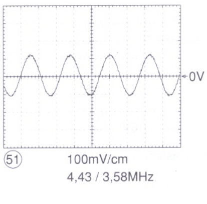
(*) WERT NICHT RELEVANT

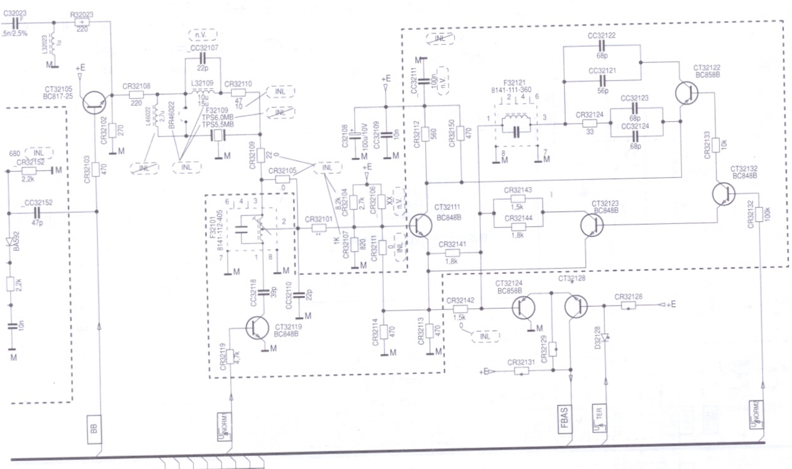
Signal-Chassis B / Signal Chassis B / Chassis Segnale B


SIGNAL-CHASSIS B
CHASSIS SIGNAL B
CHASSIS SEGNALE B
CHASIS SENAL B
PIP-BAUSTEIN 29504-106.5100
-106.5200
PIP MODULE
MODULE PIP
MODULO PIP
MODULO PIP
ST-PIP1
ST-PIP2
IC43280
TEA6415
TEA6425
BUS CONTROLLED VIDEO MATRIX
CT43289
BC858B
CT43290
BC848B
CT43255
BC848B
D43292
1N4148
IC34015
MULTI/FR/16:9
w.w TDA8375/FR
ZF
OSC.
VIDEO
AGC
AFC
FBAS
Y/C
AUDIO
RGB-MATRIX
DELAY PEAKING
BLACK STRE.
V-DRIVE
H-DRIVE
RGB
PAL/NTSC-DECODER
MATRIX
F33025
8140-535
ST-KA
n.V.
KAMMF.
CT34075
BC848B
CT34031
BC858B
ERSATZPL 29305-119.4200/.4500
/.3500
ALTERNATIVE BOARD
PLAQUE DE RECHANGE
PIASTRA DI RICAMBIO
PLACA ALTERNATIVA
INTERFACE 29305-129.06
SKY YUV/DC-PLATTE
29305-129.15
BILD_FEATURES 1
BILD_FEATURES 2
ST-PIP3
ENTFAELLT BEI GM/BSKYB
NUR BEI NTSC 3,58MHz
ONLY WITH
SEUL POUR
SOLO CON
SOLO CON
NUR BEI GM
ZUR BILDROHRPLATTE
ST-RGB
CT57005
BC848B
CT57021
BC858B
CT57020
BC858B
CT52253
BC858B
D57012
1N4148
D57023
1N4148
F32152
5,5MHz
F32153
6,5MHz/OIRT
6,0MHz/FR
CT32105
BC817-25
ZUM SIGNALCHASSIS A
SEITE / PAGE 21 24
MONO
SDA
SCL
VIDEO
CHROMA
SSC
R
G
B
SW
BB
ZF
+45V
+F
+E
+E/3
M


(50) 2V/cm, 10µs/cm
Zeile / Line


(50A) 2V/cm, 200µs/cm
Bild / Picture

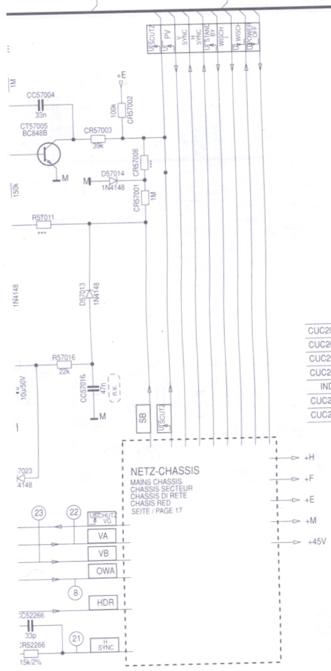

(51) 100mV/cm
4,43 / 3,58MHz


C32023
R32023
220
CT32105
BC817-25
CR32108
220
CR32102
CR32103
470
L32109
CR32110
F32109
TPS6,0MB
TPS5,5MB
n.v.
INL
CC32107
22p
CR32109
CR32105
CR32101
F32101
8141-112-405
CC32118
39p
CC32110
22p
CT32119
BC848B
CR32119
CR32104
CR32107
CR32106
CR32111
CC32108
CC32109
CC32111
CR32112
560
CR32150
470
F32121
8141-111-360
CC32122
68p
CC32121
56p
CC32123
68p
CC32124
68p
CR32124
33
CT32122
BC858B
CR32133
10k
CT32132
BC848B
CR32132
100k
CT32111
BC848B
CR32143
1,5k
CR32144
1,8k
CT32123
BC848B
CR32141
1,8k
CR32142
1,5k
CT32124
BC858B
CT32128
CR32128
CR32129
CR32131
D32128
CR32114
470
CR32113
470
680
CR32152
2,2k
CC32152
47p
BAS32
FBAS
TER
BB
+E
M

_R.....= n.v.

** CUC	2030-2040 INL/NIC	2030-2040 INL/NIC	2030-2040 FR	2050-2080 INL/NIC	2050-2080 FR	2030-2040 INL/NIC	2030-2040 FR	2058S-2059S BSKYB	2058-2059 GB
IC34015	TDA8843N1	TDA 8375	TDA 8375	TDA8843N2	TDA8844N2	TDA8843N2	TDA8844N2	TDA8843N2	TDA8843N2
Ersatz-Featurepl.	——	29305-119.45	29305-119.42	29305-119.35	29305-119.35	——	——	29305-129.15	——
CR32101	820/560	820/560	560	680/470	470	680/470	470	680/470	680/470
CC33021	——	——	2,2u	——	1u	——	1u	——	——
CR33016	——	——	6,8M	——	——	——	——	——	——
CC33016	1n	1n	——	1n	1n	1n	1n	1n	1n
CR33018	6,8k	6,8k	0	6,8k	0	6,8k	0	6,8k	6,8k
CR34044/34046/34047	——	——	——	0	0	——	——	——	——
BR34038/34039	——	——	——	✕	✕	——	——	✕	——
CR34039/34040	0	——	——	——	——	0	0	——	0
CR34038	0	0	0	——	——	0	0	——	1k
CR34041	——	0	0	0	0	——	——	——	——
C34041	220u/10V	——	——	——	——	220u/10V	220u/10V	——	220u/10V
CR34043	——	0	0	——	——	——	——	——	——
C33019	4,7u/100V	4,7u/100V	4,7u/100V	2,2u/100V	2,2u/100V	2,2u/100V	2,2u/100V	2,2u/100V	2,2u/100V
F33025	-391	-391	-391	——	——	——	——	——	——
CR33025	8,2k	8,2k	8,2k	——	——	——	——	——	——
CC33025	1,5p	3,9p	3,9p	——	——	——	——	——	——
R34057/34058/34059	1,5k	1,2k (1,1k wenn IC8150 29305-219.xx)	1,2k	1,5k	1,5k	1,5k	1,5k	1,5k	1,5k
R34031	——	2,2k	2,2k	——	——	——	——	——	——
CR34032	390	0	0	390 (3,9k)	390 (3,9k)	390 (3,9k)	390 (3,9k)	390 (3,9k)	390 (3,9k)
CR34033	560	——	——	560 (5,6k)	560 (5,6k)	560 (5,6k)	560 (5,6k)	560 (5,6k)	560 (5,6k)
CC34032	330p	——	——	—— (33p)	—— (33p)	—— (33p)	—— (33p)	—— (33p)	—— (33p)
CC34037	0,1u	0	0	0,1u	0,1u	0,1u	0,1u	0,1u	0,1u
CC34039	0,22u	0,1u	0,1u	0,22u	0,22u	0,22u	0,22u	0,22u	0,22u
BR57021	✕	——	——	✕	✕	✕	✕	✕	✕
D57021	——	BAT42	BAT42	——	——	——	——	——	——
CR34036	——	——	——	——	——	——	——	——	1k
CR34037	——	——	——	——	——	——	——	——	1,8k
BR34045	——	——	——	——	——	——	——	●–●	——
R34056	8,2k	470	470	8,2k	8,2k	8,2k	8,2k	8,2k	8,2k
CR34057	——	——	——	2,7k	2,7k	2,7k	2,7k	2,7k	2,7k

IC8150=SDA5156/57
(IC8150=SDA5257-2)


VSCUT
PV
V SYNC
H SYNC
U MENU
BY
WSCH
OFF
CC57004
33n
CT57005
BC848B
CR57003
39k
CR57002
100k
CR57006
D57014
1N4148
CR57001
1M
R57011
D57013
1N4148
R57016
22k
CC57016
n.v.
SB
NETZ-CHASSIS
MAINS CHASSIS
CHASSIS SECTEUR
CHASSIS DI RETE
CHASIS RED
SEITE / PAGE 17
+H
+F
+E
+M
+45V
23
22
8
21
VA
VB
OWA
HDR
H SYNC
CC52266
33p
CR52266
15k/2%
+E
M

OPTIONSLIST CUC2040 INDIA		
	STANDART DEFAULT	CUC2040 INDIA
CR43003/08	470	0
CR43013/18	220	0
CC43003/08	470p	——
CC43013/18	1n	——
CR81047/56	4,7k	2,7k
CR81035/31	——	1k
SUBWOOFER	——	✕
CR81015	180/330	0
CR81004	——	820
CR81001	270/1k	330

*		R34063 R34066	CC34064 CC34067	CR34067 CR34064	CR32131	CR32129	CT32128	D32128	CR32128	VIDEO MATRIX	CC34067	CR34067	CC32304	CR32306	CR81064
CUC2030-2040	1-SCART	100	0	—	—	—	BC848B	1N4148	4,7k	—	0	—	—	—	—
CUC2030-2040	1-SCART+SAT	100	0	—	—	—	BC848B	1N4148	4,7k	—	0	—	1n	0	0
CUC2030-2040	2-SCART	470	0,1u	470	4,7k	0	—	—	—	A	0,1u	470	—	—	—
CUC2030-2040	2-SCART+SAT	470	0,1u	470	—	—	BC848B	1N4148	4,7k	A	0,1u	470	1n	0	0
INDIA		100	0	—	—	—	BC848B	1N4148	4,7k	—	0,1u	470	—	—	—
CUC2050-2080	2-SCART/PIP	470	0,1u	470	4,7k	0	—	—	—	B	0,1u	470	—	—	—
CUC2050-2080	2-SCART/PIP+SAT	470	0,1u	470	—	—	BC848B	1N4148	4,7k	B	0,1u	470	1n	0	0

*** CUC	STANDART DEFAULT 63cm BM 70cm BM 63cm TESLA	STANDART DEFAULT 63cm BM 70cm BM 63cm TESLA	2030 2050 VIDEOCOLOR 70cm VC	2030 VIDEOCOLOR 70cm VC	2031 2051 63cm SF 72cm SF	2031 2051 63cm SF 72cm SF	2058 82cm/16:9 PHI	2058 82cm/16:9 VC	2059 70cm/16:9 PHI	2059 70cm/16:9 VC	2080 84cm PHI	2080 VC 84cm VC
IC344015	TDA8843/44	TDA8375	TDA8843/44	TDA8375	TDA8843/44	TDA8375	TDA8843/44	TDA8843/44	TDA8843/44	TDA8843/44	TDA8843/44	TDA8843/44
CR57006	470k	470k	470k	470k	1M	1M	2,2M	2,2M	2,2M	2,2M	470k	1M
R57011	3,9k	3,9k	3,9k	3,9k	2,7k	2,7k	2,7k	2,7k	3,3k	4,3k	2,7k	2,7k
CR57012	3,9k	3,9k	3,9k	3,9k	2,7k	2,7k	2,7k	2,7k	3,3k	4,3k	2,7k	2,7k
CR57022	1k/2%	1,1k/2%	1k/2%	1,1k/2%	1k/2%	1,1k/2%	1k/2%	1,5k/2%	1k/2%	1,8k/2%	1k/2%	1k/2%

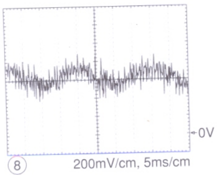
SIGNAL-CHASSIS

CHASSIS SIGNAL
CHASSIS SEGNALE
CHASIS SENAL

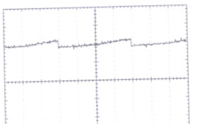
CUC 2030
CUC 2031
CUC 2032
CUC 2033
CUC 2035
CUC 2040
CUC 2050
CUC 2051
CUC 2058
CUC 2058D
CUC 2058S
CUC 2059
CUC 2059D
CUC 2059S
CUC 2080

AENDERUNGEN VORBEHALTEN
SUBJECT TO ALTERNATE
SOURS RESERVE DE MODIFIC
CON RISERVA DI MODIFICA
RESERV. EL DEREC. DE MODIFIC.

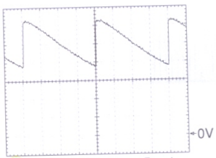
170700
21641-907.0200



⑧ 200mV/cm, 5ms/cm

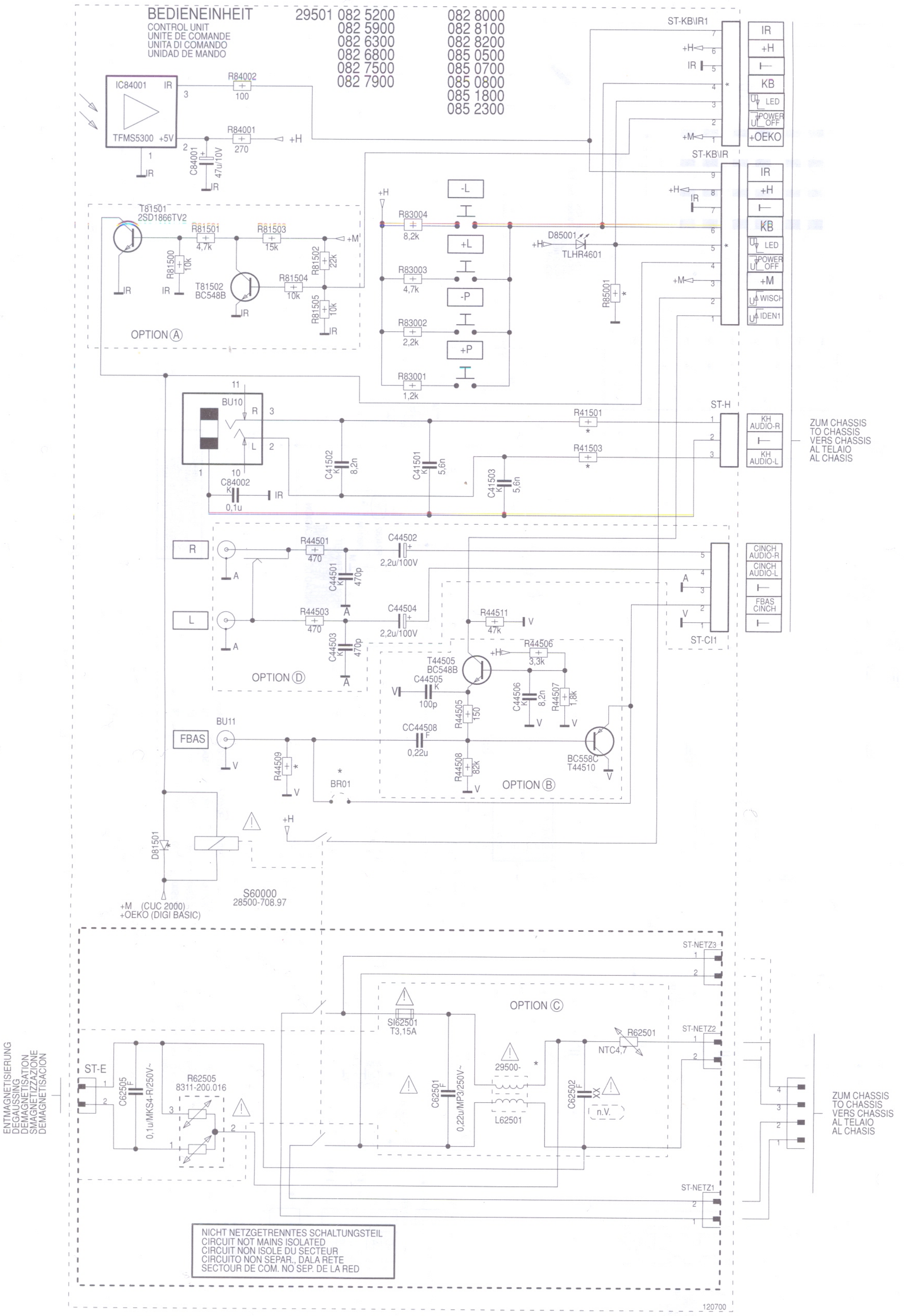


㉒ 500mV/cm, 5ms/cm



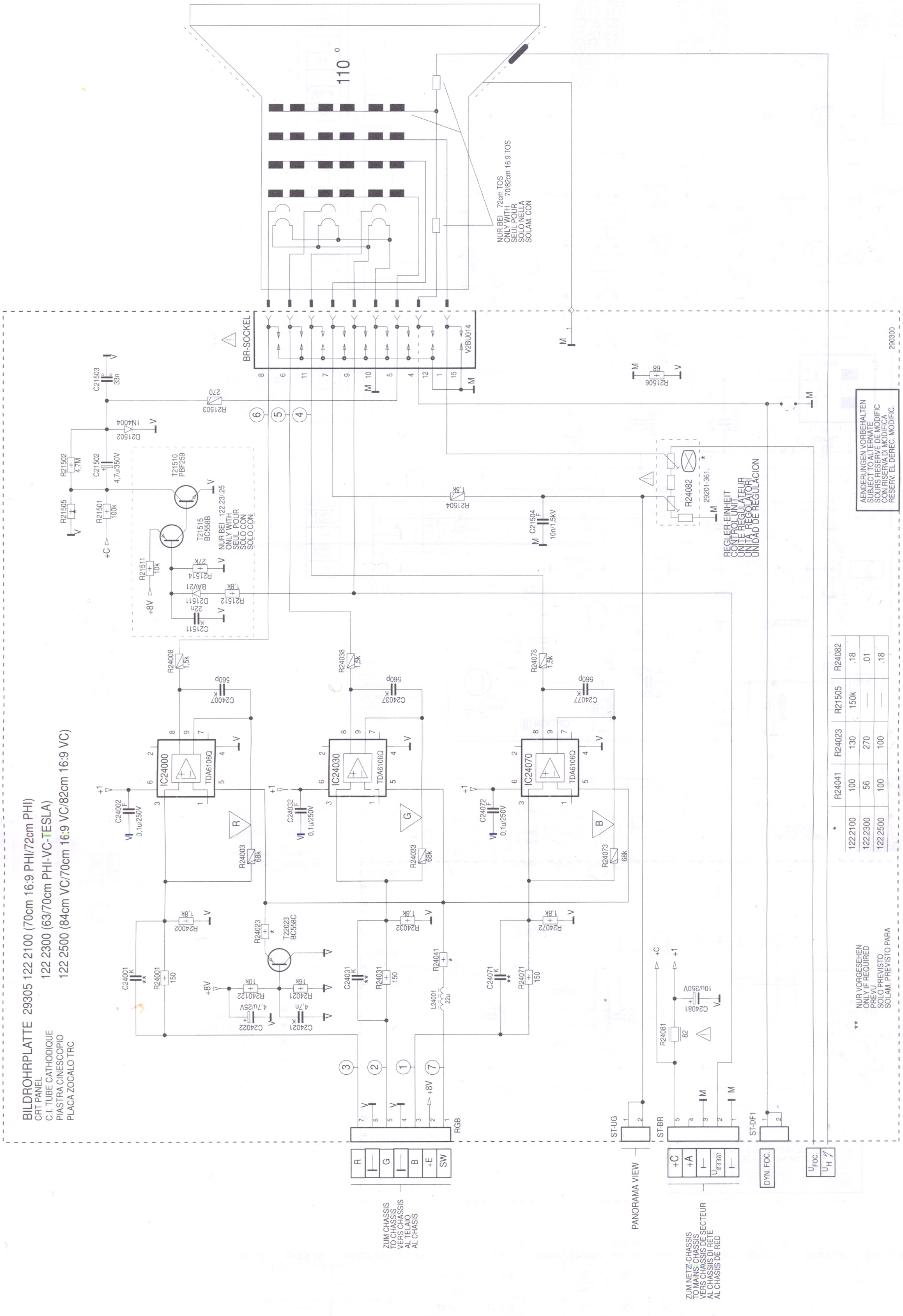
㉓ 500mV/cm, 5ms/cm

Bedieneinheit / Control Unit / Unita di Comando 29501 085 1800

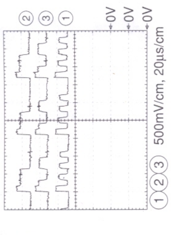

BEDIENEINHEIT
CONTROL UNIT
UNITE DE COMANDE
UNITA DI COMANDO
UNIDAD DE MANDO
29501 082 5200
082 5900
082 6300
082 6800
082 7500
082 7900
082 8000
082 8100
082 8200
085 0500
085 0700
085 0800
085 1800
085 2300
IC84001
TFMS5300 +5V
IR
R84002
100
R84001
270
+H
C84001
47u/10V
T81501
2SD1866TV2
R81501
4,7k
R81503
15k
R81500
10k
R81502
22k
R81504
10k
R81505
10k
T81502
BC548B
+M
OPTION Ⓐ
R83004
8,2k
R83003
4,7k
R83002
2,2k
R83001
1,2k
-L
+L
-P
+P
D85001
TLHR4601
R85001
ST-KB\IR1
ST-KB\IR
IR
+H
KB
LED
POWER OFF
+OEKO
+M
WISCH
IDEN1
BU10
C84002
0,1u
C41502
8,2n
C41501
5,6n
C41503
5,6n
R41501
R41503
ST-H
KH AUDIO-R
KH AUDIO-L
ZUM CHASSIS
TO CHASSIS
VERS CHASSIS
AL TELAIO
AL CHASIS
R
L
R44501
470
R44503
470
C44501
470p
C44503
470p
C44502
2,2u/100V
C44504
2,2u/100V
OPTION Ⓓ
R44511
47k
T44505
BC548B
C44505
100p
R44506
3,3k
C44506
8,2n
R44507
1,8k
R44505
150
CC44508
0,22u
R44508
82k
BC558C
T44510
OPTION Ⓑ
CINCH AUDIO-R
CINCH AUDIO-L
FBAS CINCH
ST-CI1
FBAS
BU11
R44509
BR01
D81501
S60000
28500-708.97
+M (CUC 2000)
+OEKO (DIGI BASIC)
ST-NETZ3
ST-NETZ2
ST-NETZ1
OPTION Ⓒ
SI62501
T3,15A
C62501
0,22u/MP3/250V~
29500-
L62501
R62501
NTC4,7
C62502
XX
n.V.
ST-E
C62505
0,1u/MKS4-R/250V~
R62505
8311-200.016
ENTMAGNETISIERUNG
DEGAUSSING
DEMAGNETISATION
SMAGNETIZZAZIONE
DEMAGNETISACION
NICHT NETZGETRENNTES SCHALTUNGSTEIL
CIRCUIT NOT MAINS ISOLATED
CIRCUIT NON ISOLE DU SECTEUR
CIRCUITO NON SEPAR., DALA RETE
SECTOUR DE COM. NO SEP. DE LA RED
120700

*	CHASSIS	OPTIONⒶ	OPTIONⒷ	OPTIONⒸ ST-NETZ2	OPTIONⒹ	BR01	R41501 R41503	R44509	R44511	L62501	D81501	R85001	ST-KB/IR1	ST-KB/IR	ST-NETZ3
-082.5200	BASIC	×	—	×	×	×	100	75	—	-812.97	1N4148	—	×	—	—
-082.5900	CUC 2000	—	×	—	×	—	33	75	—	—	1N4148	—	—	×	×
-082.6300	BASIC	×	—	×	×	×	100	75	—	-825.97	1N4148	—	×	—	—
-082.6800	BASIC ++	×	—	×	×	×	100	—	—	-812.97	1N4148	—	×	—	—
-082.7500	BASIC ++	×	—	×	×	×	100	—	—	-825.97	1N4148	—	×	—	—
-082.7900	BASIC ++	×	—	×	×	×	100	—	—	-812.97	1N4148	390	×	—	—
-082.8000	CUC 2000	—	×	—	×	—	33	75	—	—	1N4148	390	—	×	×
-082.8100	BASIC	×	—	×	×	×	100	75	—	-825.97	1N4148	—	×	—	—
-082.8200	CUC 2000	—	×	—	×	—	33	75	—	—	1N4148	390	—	×	×
-085.0500	CUC 2000	—	×	—	×	—	33	75	—	—	1N4148	—	—	×	×
-085.0700	BASIC ++	×	—	×	×	×	100	—	—	-835.97	1N4148	—	×	—	—
-085.0800	CUC 2000	—	×	—	×	—	33	75	—	—	1N4148	—	—	×	×
-085.1800	CUC 2000	—	—	—	—	—	33	—	47k	—	—	—	—	×	×
-085.2300	CUC 2000	—	—	—	—	—	33	—	47k	—	—	—	—	×	×

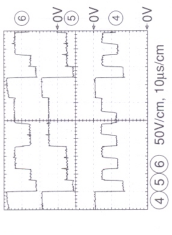
Bildrohrplatte / CRT Panel / Piastra Cinescopio 29305 122 2300


BILDROHRPLATTE 29305 122 2100 (70cm 16:9 PHI/72cm PHI)
122 2300 (63/70cm PHI-VC-TESLA)
122 2500 (84cm VC/70cm 16:9 VC/82cm 16:9 VC)
CRT PANEL
C.I. TUBE CATHODIQUE
PIASTRA CINESCOPIO
PLACA ZOCALO TRC
110 °
NUR BEI 72cm TOS
ONLY WITH 70/82cm 16:9 TOS
SEUL POUR
SOLO NELLA
SOLAM. CON
BR-SOCKEL
V2BU014
R21503 270
C21503 33n
D21502 1N4004
R21502 4,7M
C21502 4,7u/350V
R21505
R21501 100k
T21510 PBF259
T21515 BC556B
NUR BEI 122 23/.25
ONLY WITH
SEUL POUR
SOLO CON
SOLO CON
R21511 10k
R21514 2,7K
D21511 BAV21
R21512 1,8K
C21511 22n
R21504 1,5K
C21504 10n/1,5kV
R21506 68
REGLER-EINHEIT
CONTROL UNIT
UNITE REGULATEUR
UNITA REGOLATORI
UNIDAD DE REGULACION
R24082
29201-361..
AENDERUNGEN VORBEHALTEN
SUBJECT TO ALTERNATE
SOUS RESERVE DE MODIFIC
CON RISERVA DI MODIFICA
RESERV. EL DEREC. MODIFIC.
290300
IC24000 TDA6106Q
IC24030 TDA6106Q
IC24070 TDA6106Q
R24008 1,5K
R24038 1,5K
R24078 1,5K
C24007 560p
C24037 560p
C24077 560p
C24002 0,1u/250V
C24032 0,1u/250V
C24072 0,1u/250V
R
G
B
R24003 68k
R24033 68k
R24073 68k
R24002 1,8K
R24032 1,8K
R24072 1,8K
C24001 **
R24001 150
C24031 **
R24031 150
C24071 **
R24071 150
R24023 *
T22023 BC558C
R24122 10K
R24021 10K
C24022 4,7u/25V
C24021 4,7n
R24041 *
L24001 22u
+8V
+1
+C
C24081 10u/350V
R24081 82
** NUR VORGESEHEN
ONLY IF REQUIRED
PREVU
SOLO PREVISTO
SOLAM. PREVISTO PARA
RGB
ST-UG
ST-BR
ST-DF1
R G B +E SW
ZUM CHASSIS
TO CHASSIS
VERS CHASSIS
AL TELAIO
AL CHASIS
PANORAMA VIEW
+C +A UBAT
ZUM NETZ-CHASSIS
TO MAINS CHASSIS
VERS CHASSIS DE SECTEUR
AL CHASSIS DI RETE
AL CHASIS DE RED
DYN. FOC.
UFOC
UH

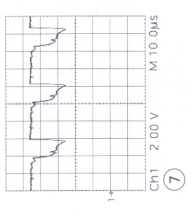
*	R24041	R24023	R21505	R24082
122 2100	100	130	150k	.18
122 2300	56	270	—	.01
122 2500	100	100	—	.18



①②③ 500mV/cm, 20µs/cm



④⑤⑥ 50V/cm, 10µs/cm



Ch1 2.00 V M 10.0µs
⑦